Bill To: Various State Agencies Located throughout Idaho

Various, ID 83701

Various State Agencies

Participating Addendum Contract Renewal

Participating Addendum PADD1004 - 02

DELIVER TO:

Various State Agencies Located throughout Idaho

Various, ID 83701

Date: Sat Dec 06, 2008 F.O.B: Destination

Terms:

VENDOR: VARIOUS CONTRACTORS Various Addresses Boise. ID 83706 **Attn: Contractor Source** Vendor Nbr: P00000055654

Emailed To: 999@999.com Phone: 208 327-7465 Fax: 208 327-7320

Account Number: P00000055654

Start of Service Date Thu Oct 30, 2008

End of Service Date: Thu Oct 29, 2009

Solicitation#: RFQ03882

DOC#: PREQ7417

File(s) Attached:

02702c_Contract.pdf

2008-2009 Renewal.pdf

Buyer: GREGORY LINDSTROM 208-332-1609

Item No	Description	Quantity UOM	Unit Price	EXTENSION
000	BLANKET PURCHASE AGREEMENT (line item particulars follow)	1 lot		500000000.00
	Total:	500000000.0		50000000.00
	[

WSCA PUBLIC SAFETY COMMINICATION EQUIPMENT

CONTRACT PADD1004 RENEWAL

This contract renewal and the provisions hereof are hereby made part of that certain State of Idaho contract number PADD1004, for WSCA PUBLIC SAFETY COMMINICATION EQUIPMENT dated FEBRUARY 02, 2004 for ALL ELIGIBLE POLITICAL SUBDIVISIONS OR PUBLIC AGENCIES, between VARIOUS CONTRACTORS as "Contractor" and the State of Idaho as "State." Contractor and State hereby agree as follows:

Comments:

All of the terms and conditions contained in the Contract shall remain in full force and effect, except as expressly modified herein. The effective Blanket date of this renewal is OCTOBER 30, 2008.

This contract is renewed for ONE (1) YEAR commencing OCTOBER 30, 2008 and expiring OCTOBER 29, 2009. The same terms, conditions and prices prevail for the contract renewal period.

The dollar amount listed in the contract renewal pricing is an estimate and cannot be guaranteed. The actual dollar amount of the contract may be more or less depending on the actual orders, requirements, or tasks given to the Contractor by the State or may be dependent upon the specific terms of the Contract.

SIGNED AND DATED ACCEPTANCE LETTER FROM VARIOUS CONTRACTORS ON FILE AT THE DIVISION OF PURCHASING

Item No	Description	Quantity UOM	Unit Price	EXTENSION
001	WSCA Public Safety Communication Equipment (Contract 02702) (915-79) (nt)	1 LOT	500000000.00	500000000.00
	Instr: Electronic copies of the WSCA contract may be obtained, free of charge, by requesting a CD from the Idaho Division of Purchasing Roise Idaho (208) 327-7465		1	

	NOTICE OF STATEWIDE CONTRACT (WSCA CONTRACT 02702) AWARD		
	NOTICE OF STATEWISE CONTRACT (WSCA CONTRACT 02702) AWARD		
	Contract for WSCA Public Safety Communication Equipment for various state of Idaho agencies, in Purchasing or the requisitioning agency will issue individual releases (delivery or purchase orders) a basis.		
	Contract Title:WSCA Public Safety Communication Equipment Delivery Zone/Area:Statewide Contract Usage Type:Convenience Public Agency Clause:Yes		
	Contract Administration - WSCA:Keith ArmstrongPhone Number:360-902-7420Fax Number360-586-2426E-Mail:karmstr@ga.wa.gov		
General	Contract Administration - Gregory Lindstrom, Purchasing OfficerPhone Number208-332-1609Fax Number208-327-7320E-MailGregory.Lindstrom@adm.idaho.gov		
Comments:	Contractor's Primary Contact:MULTIPLE CONTRACTORS. SEE CONTRACT SUMMARY FOR CONTACT INFORMATION.		
	CONTRACTOR: Ship to the FOB DESTINATION point and BILL DIRECTLY to the ORDERING AGENCY. DO NOT MAIL INVOICES TO THE DIVISION OF PURCHASING. Notating the Contract Award Number on any invoices/statement will facilitate the efficient processing of payment.		
	Minimum Order Quantity: None Minimum Dollar Amount: None Standard Delivery Time: Varies		
	Order Placement Address: VARIOUS PLACEMENT ADDRESSES. SEE CONTRACT SUMMARY FOR CONTACT INFORMATION.		
	Payment Address: VARIOUS PAYMENT ADDRESSES. SEE CONTRACT SUMMARY FOR CONTACT INFORMATION.		
	INVOICES MUST BE SENT TO THE IDAHO ORDERING AGENCY.		
Instructions	adling Included in Price		
i rongino, man			
		By: GREGORY D. LINDSTROM	

Western States Contracting Alliance Current Contract Information



PHASE I - SOLE SOURCE/INSTALLED BASE AWARD Phase I Awards PHASE II - COMPETITIVELY BID EQUIPMENT

Effective Date: October 30, 2008

Contract number: 02702 Commodity code: 5820

(replaces 03599, 08497, 02899)

Contract title: WSCA Public Safety Communication Equipment

Purpose: Contract Extension for 12 months with all vendors

Original award date: October 30, 2003

Current extension period: October 30, 2008 through: October 29, 2009

Contract term: Not to exceed <u>10</u> years

Contract type: This contract is designated as convenience use.

Scope of contract

This contract is awarded to multiple contractor(s).

Notice to Washington State Agencies subject to the policies of the Washington State Information Services Board under Chapter 43.105 RCW, your purchase may require prior approval from the Department of Information Services (DIS) and the Information Services Board (ISB).

Primary user agency(ies): Western States Contracting Alliance State and local agencies.

For use by: General use: All State Agencies, Political Subdivisions of: Alaska, Arizona,

Arkansas, California, Colorado, Florida, Hawaii, Idaho, Iowa, Kansas, Mississippi, Montana, New Jersey Transit Corp., New Hampshire, Nevada, Oregon, Oklahoma, Rhode Island, South Dakota, Utah and Washington, Wisconsin, Wyoming and Qualified Non-profit Corporations, Materials

Management Center, Participating Institutions of Higher Education (College and

Universities, Community and Technical Colleges). Various use: All

governmental agencies

Term worth: \$500,000,000

Washington State Department of General Administration Office of State Procurement, PO Box 41017, Olympia, WA 98504-1017

To request this information in alternative formats call (360) 902-7400, or TDD (360) 664-3799.

Current Contract Information Contract No. 02702 Page 2

Current participation:

\$0.00 MBE \$0.00 WBE \$500,000,000.00 \$0.00 EXEMPT WBE 0% OTHER 0% EXEMPT 0%

Current Participation:

Contract vendors are providing sub-contractors who are qualified WBE's.

Contact contractor's for returning recoverable materials at the end of the

equipment life cycle.

This page contains key contract features. Find detailed information on succeeding pages. For more information on this contract, or if you have any questions, please contact your local agency Purchasing Office, or you may contact our office at the numbers listed below.

Contract Consultant: Keith Armstrong Office Assistant: Christine Schoepfer Phone Number: (360) 902-7420 Phone Number: (360) 902-7192 Fax Number: (360) 586-2426 Fax Number: (360) 586-2426

Email: karmstr@ga.wa.gov Email: schoep@ga.wa.gov

Unit Manager Kenneth A. Woodfork Purchasing Agent Christine Warnock

Visit our Internet site: http://www.ga.wa.gov/purchase

WESTERN STATES CONTRACTING ALLIANCE CONTRACT: 02702 PUBLIC SAFETY COMMUNICATIONS EQUIPMENT AND SERVICE CONTRACT.

SCOPE OF THE CONTRACT

The purpose of this convenience, multi-state, contract is for the purchase of Public Safety Communication Equipment, and programs, as they are needed. The WSCA directors may authorize state and local governmental entities throughout the nation (NASPO) the use of this contract subject to approval of the local state purchasing director and local statutory provisions. The selected contractors shall accept purchase orders from and deliver products to approved purchasing entities. Contractors are required to offer warranty and maintenance services on products purchased under these agreements. Only Manufacturers submit proposals for products and/or services that they themselves produce in Phase I and/or Phase II. Phase I and Phase II are as follows:

Phase I is a sole source and/or installed base contract.

Phase II is competitively bid contract.

"WSCA" Means the Western States Contracting Alliance, a cooperative group contracting consortium for state government departments, institutions, agencies and political subdivisions (i.e., colleges, school districts, counties, cites, etc.) for the states of Alaska, Arizona, California, Colorado, Hawaii, Idaho, Minnesota, Montana, Nevada, New Mexico, Oregon, South Dakota, Utah, Washington, and Wyoming.

NONPROFIT CORPORATIONS

An organization meeting all of the following qualifications:

Registration with the Secretary of State in the State of Washington as a Nonprofit Corporation;

Has Federal Tax Status as a 501(C) 3 Nonprofit Corporation;

Is receiving a portion of its funding directly from public agencies, either Federal, State of Washington, or Political Subdivisions of the State of Washington.

POLITICAL SUBDIVISION

Any unit of local government within the states of Washington and/or Oregon that receives state funds; e.g. cities, counties, school districts, special purpose districts, local service districts, is a member of the states' purchasing co-op, and is authorized to purchase from state contracts by inter local agreements. For the state of Oregon, the term "political subdivision" includes nonprofit corporations and Institutions of higher education (e.g. Colleges and Universities, Community and Technical Colleges)

WSCA Background Information: WSCA was formed in October 1993. The purpose of WSCA is to establish the means by which participating states may join together in cooperative multi-state contracting, to ensure the commitment of each participating state and to provide regular and ongoing assistance to participating states in researching, developing, and administering procurement and contractual specifications and requirements. WSCA maintains a cooperative relationship with the National Association of State Purchasing Officials (NASPO). The mission of WSCA is to implement multi-state contracts to achieve cost-effective and efficient acquisition of quality products and services and to promote interoperability and sharing amongst the WSCA participants.

Products/Services available: Public Safety Communication Equipment

Related product contracts: Radio, Gateway devices, Towers, Microwave, Waveguides, Antennas, Power

Supplies

NOTES:

I. State Agencies: Submit Order directly to Contractor for processing. Political Subdivisions: Submit orders directly to Contractor referencing State of Washington contract number #02702. If you are unsure of your status in the State Purchasing Cooperative call (360) 902-7415.

Only authorized purchasers included in the Western States Contracting Alliance (WSCA) there local governments, poly-sub, and non-profits may use the contract.

Contract Terms: This Document includes by reference all terms and conditions published in the original RFP and Specification Documents.

II. The July 1, 2006 edition of the CCI includes a revision to the Motorola contract segment. Effective with publication, the basis for pricing calculations will be the current Motorola list price. The new pricing replaces the old Motorola list price that has been submitted with the original bid. Making this change was not a defacto price increase. A line-by-line review of the two lists indicated that there were no cases of like-for-like price increases. The effect of the change was found to be minimal but would have the benefit of making pricing on new items available. At the same time, Motorola advanced the effective date of its final volume discount. Motorola was scheduled to move from a 2% to a 3% volume discount within a year. The July change makes the additional discount available now. Further, Motorola will reduce its payments to WSCA headquarters from 1.5% to ½ of 1% for all sales outside of WA. Motorola will retain the 1.5% administrative rate for WA sales. Also with CCI revision was some administrative changes of taking out contract language that no longer applies and was struck through with computer lines. That old language and old outdated products and inapplicable terms were deleted.

III. The State of Minnesota has withdrawn from this WSCA contract according to published documents and confirmed reports with Minnesota procurement.

SPECIAL CONDITIONS:

Refer to the original RFP, Amendments and Specifications for all terms, conditions and equipment specifications.

Online reporting report to purblish quarterly sales see links below:



or https://fortress.wa.gov/ga/apps/CSR/login.aspx

Have your contract administrator use their e-mail address and login password to access the online reporting. If you do not have an email address/password, or if you are having system trouble, please contact Customer Service at (360) 902-7400 or PCAMail@ga.wa.gov.

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Phase II

Phase I Awards

PHASE 1, WAS NOT COMPETITIVELY BID AND CONTRACTS WERE BASED ON SOLE SOURCE, SPECIAL MARKET CONDITIONS:

All purchase entities must check with there laws governing sole source, special market conditions before using the Phase 1 contract. Phase 1 contract was based on special market conditions, an installed base and only vendor able to provide the replacement equipment.

Equipment Category	Status of Award	Date of Award
Category 1, Radios	Awarded	November 25, 2003
Category 1a, 900 MHz Radios	Awarded	August 3, 2007
Category 2, Aviation Radios	Awarded	November 25, 2003
Category 3, Dual Receiver Radio	Re-bid 2004	First Qtr 2004
Category 4, Gateway Devices:	Awarded	November 25, 2003
Category 5, Microwave	Awarded	November 25, 2003
Category 6, Towers	Awarded	November 25, 2003
Category 7 Microwave Antennas,	Awarded	November 25, 2003
Waveguide & Associated Hardware		
Category 8, Test Equipment	Awarded	November 25, 2003
	DILLOT	· · · · · · · · · · · · · · · · · · ·

PHASE I

Contractors	Aeroflex	Page 13
:	Alcatel	Page 24
	Ceragon Networks	Page 47
	Daniels Electronics	Page 50
	EF Johnson Company	Page 57
	Eltek Valere	Page 118
	General Dynamics	Page 123
	Harris Stratex Networks Operating Corporation	Page 120
	Icom America, Inc.	Page 138
	Raytheon	Page 140
	Kenwood	Page 146
	M/A COM	Page 156
	Motorola	Page 166
	Radian Communication Services, Inc	Page 187
	Radio Frequency System	Page 193
	RELM Wireless Corporation (King)	Page 214
	Sinclair Technologies	Page 215
	SmartLink Radio Networks	Page 219
	Tait North America, Inc.	Page 223
	Valmont	Page 225
	Vertex Standard	Page 249
	GE MDS, LLC	Page 252

Washington State Department of General Administration Office of State Procurement, PO Box 41017, Olympia, WA 98504-1017

To request this information in alternative formats call (360) 902-7400, or TDD (360) 664-3799.

Phase II Awards

PHASE 2, WAS COMPETITIVELY BID AND ALL PROCUREMENT PRACTICES WERE FOLLOWED.

PHASE 2 AWARDS:

Equipment Category	Status of Award	Date of Award or
		Proposed date of Award
Category 1, Radios	Awarded	October 30, 2003
Category 2, Aviation Radios	Awarded	October 30, 2003
Category 3, Dual Receiver Radio	Re-bid	1 st QTR 2004
Category 4, Gateway Devices:	Awarded	October 30, 2003
Category 5, Microwave	Awarded	October 30, 2003
Category 6 Towers	Awarded	October 30, 2003
CATEGORY 7 Waveguides and		
Antennas	Awarded	October 30, 2003
Category 8, Test Equipment	Awarded	October 30, 2003

PHASE II

Contractors:	Aeroflex	Page 13
	Alcatel	Page 24
	Communications-Applied Technology	Page 39
	EF Johnson Company	Page 57
	Eltek	Page 144
	General Dynamics	Page 148
	Harris Stratex Networks Operating Corporation	Page 153
	Icom America, Inc.	Page 138
	Raytheon	Page 140
	Kenwood	Page 146
	M/A COM	Page 156
	Northern Airborne Technology Ltd	Page 182
	Radian Communication Services, Inc	Page 187
	Radio Frequency System	Page 193
	SmartLink Radio Networks	Page 219
	Valmont	Page 225

Category 1, Radios

Link to Specifications: http://www.ga.wa.gov/pca/bids/02702-Phase2-Category1.zip

NA - Not awarded and will be added after these items are re-bid.

Equipment	Link to Contractor
Portable Analog	
High VHF 136-174 Quality Category A	EF Johnson Company
High VHF 136-174 Quality Category B	EF Johnson Company
Error! Reference source not found.	M/A COM
High VHF 136-174 Quality Category D	Kenwood
Portable Analog	
UHF 450-470 Quality Category A	EF Johnson Company
UHF 450-470 Quality Category B	EF Johnson Company
UHF 450-470 Quality Category C	Kenwood
UHF 450-470 Quality Category D	EF
Portable Analog	
UHF 806-870 Quality Category A	EF Johnson Company
UHF 806-870 Quality Category B	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
Desktop Analog	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	NA
Desktop Analog	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA
Desktop Analog	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
Mobile Analog	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	EF Johnson Company
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
Mobile Analog UHF 450-470	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA

Equipment	Link to Contractor
Error! Reference source not found.	M/A COM
UHF 450-470 Quality Category D	NA
Mobile Analog	
Error! Reference source not found.	M/A COM
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
Remote Base/Repeater Station Analog	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
Error! Reference source not found.	M/A COM
Remote Base/Repeater Station Analog	
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA
UHF 450-470 Quality Category C	NA
Error! Reference source not found.	M/A COM
Remote Base/Repeater Station Analog	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	NA
UHF 806-870 Quality Category D	NA
Portable Digital	
High VHF 136-174 Quality Category A	EF Johnson Company
High VHF 136-174 Quality Category B	EF Johnson Company
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
Portable Digital	EFI1 C
UHF 450-470 Quality Category A UHF 450-470 Quality Category B	EF Johnson Company
	EF Johnson Company
UHF 450-470 Quality Category C UHF 450-470 Quality Category D	EF Johnson Company EF Johnson Company
Portable Digital	Er Johnson Company
UHF 806-870 Quality Category A	EF Johnson Company
UHF 806-870 Quality Category B	EF Johnson Company EF Johnson Company
UHF 806-870 Quality Category C	EF Johnson Company EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
Desktop Digital	Di vombon company
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	EF Johnson Company
Desktop Digital	1 ' 4
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA

Equipment	Link to Contractor
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA
Desktop Digital	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
Mobile Digital	•
High VHF 136-174 Quality Category A	NA
Error! Reference source not found.	M/A COM
High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category D	EF Johnson Company
Mobile Digital	
UHF 450-470 Quality Category A	NA
Error! Reference source not found.	M/A COM
UHF 450-470 Quality Category C	NA
UHF 450-470 Quality Category D	NA
Mobile Digital	
UHF 806-870 Quality Category A	NA
UHF 806-870 Quality Category B	NA
UHF 806-870 Quality Category C	EF Johnson Company
UHF 806-870 Quality Category D	EF Johnson Company
Remote Bass/Repeater Station Digital	
High VHF 136-174 Quality Category A	NA
High VHF 136-174 Quality Category B	NA
High VHF 136-174 Quality Category C	NA
High VHF 136-174 Quality Category D	NA
Remote Bass/Repeater Station Digital	~~.
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA NA
UHF 450-470 Quality Category C	NA NA
UHF 450-470 Quality Category D	NA
Remote Bass/Repeater Station Digital	NT A
UHF 806-870 Quality Category A	NA NA
UHF 806-870 Quality Category B	NA NA
UHF 806-870 Quality Category D	NA NA
UHF 806-870 Quality Category D	NA
Mobile Trunked Digital High VHF 136-174 Quality Category A	NA
	NA NA
High VHF 136-174 Quality Category B High VHF 136-174 Quality Category C	EF Johnson Company
High VHF 136-174 Quality Category C High VHF 136-174 Quality Category D	EF Johnson Company EF Johnson Company
Mobile Trunked Digital	Er Johnson Company
UHF 450-470 Quality Category A	NA
UHF 450-470 Quality Category B	NA NA
OTH 430-470 Quality Category D	IVA

Equipment	Link to Contractor			
UHF 450-470 Quality Category C	NA			
UHF 450-470 Quality Category D	NA			
Mobile Trunked Digital				
UHF 806-870 Quality Category A	NA			
UHF 806-870 Quality Category B	NA			
UHF 806-870 Quality Category C	EF Johnson Company			
UHF 806-870 Quality Category D	EF Johnson Company			
Portable Trunked Digital	Er Johnson Company			
High VHF 136-174 Quality Category A	NA			
High VHF 136-174 Quality Category B	EF Johnson Company			
High VHF 136-174 Quality Category C	EF Johnson Company			
High VHF 136-174 Quality Category D	EF Johnson Company			
Portable Trunked Digital	El Johnson Company			
UHF 450-470 Quality Category A	EF Johnson Company			
UHF 450-470 Quality Category B	EF Johnson Company			
UHF 450-470 Quality Category C	EF Johnson Company EF Johnson Company			
	EF Johnson Company EF Johnson Company			
UHF 450-470 Quality Category D	Er Johnson Company			
Portable Trunked Digital	NT A			
UHF 806-870 Quality Category A	NA			
UHF 806-870 Quality Category B	EF Johnson Company			
UHF 806-870 Quality Category C	EF Johnson Company			
UHF 806-870 Quality Category D	EF Johnson Company			
Category 2, A	viation Radios			
Link to Specifications: http://www.ga.wa.gov/pca/bids/	02702-Phase2-Category2.doc			
Equipment	Link to Contractor			
FM Band Aircraft Radio	Northern Airborne Technology Ltd			
AM Band Aircraft Radio	Icom America, Inc.			
Category 3 Dual Rece	eiver, In-Band Repeater			
	, 1			
Link to Specifications: http://www.ga.wa.gov/pca/bids/				
Equipment	Link to Contractor			
Category 4, Gateway Devices:				
Link to Specifications: http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc				
Equipment	Link to Contractor			
Category 4, Specifications for ICRI audio switch	Communications-Applied Technology			
Category 4, Specifications for ACU1000	Raytheon/JPS			
	M/A COM			

Category 4 IP Base Solution SmartLink

SmartLink Radio Networks

Category 5, Microwave

Link to Specifications: http://www.ga.wa	.gov/pca/bids/02702	-Phase2-Categ	ory5.doc
Equipment	Capacity		Link to Contractor
Hot Standby - Terminal – 6 GHz	8T, 16T	Alcatel	
Hot Standby - Terminal – 6 GHz	28T, OC3		
Non-Hot Standby – Terminal – 6 GHz	8T, 16T, OC3	Alcatel	
Non-Hot Standby - Terminal – 6 GHz	28T, OC3		
Hot Standby – Terminal – 11 GHz	12T, 16T	Alcatel	
Hot Standby - Terminal – 11 GHz	28T, OC3		
Non-Hot Standby – Terminal – 11 GHz	12T	Alcatel	
Non-Hot Standby – Terminal – 11 GHz	16T, 28T, OC3		
Hot Standby - Terminal – 18 GHz	16T, 28T	Alcatel	
Hot Standby - Terminal – 18 GHz	OC3		
Non-Hot Standby – Terminal – 18 GHz	16T	Alcatel	
Non-Hot Standby – Terminal – 18 GHz	28T, OC3		
Hot Standby – Terminal – 23 GHz	16T, 28T, OC3	Alcatel	
Non-Hot Standby - Terminal – 23 GHz	16T	Alcatel	
Non-Hot Standby - Terminal – 23 GHz	28T, OC3		
Hot Standby – Repeater – 6 GHz	8T, 16T	Alcatel	
Phase II	28T, OC3	·	·

Harris Corporation

TT - 4	C411	- Repeater -	
HOL	Standny -	– Reneater –	- h (тH7

Non-Hot Standby – Repeater – 6 GHz	8T, 16T, OC3	Alcatel
Non-Hot Standby – Repeater – 6 GHz	28T	
Hot Standby – Repeater – 11 GHz	16T, 28T, OC3	
Non-Hot Standby – Repeater – 11 GHz	16T, 28T, OC3	
Hot Standby – Repeater – 18 GHz	16T, 28T	Alcatel
Hot Standby – Repeater – 18 GHz	OC3	
Non-Hot Standby – Repeater – 18 GHz	16T	Alcatel
Non-Hot Standby – Repeater – 18 GHz	28T, OC3	
Hot Standby – Repeater – 23 GHz	16T, 28T, OC3	Alcatel
Non-Hot Standby - Repeater – 23 GHz	16T	Alcatel
Non-Hot Standby - Repeater – 23 GHz	28T, OC3	

Category 6 Communication Towers

Link to Specifications: http://www.ga.wa.gov/pca/bids/02702-Phase2-Category6.doc

Equipment

Link to Contractor

Radian Communication Services, Inc

Current Contract Information	Contract No. 02702	Page 12
REV F SPECIFICATIONS	Valmont	
3-LEGGED TRIANGULAR SELF SUF	PPORT	
TOWERS		
REV F SPECIFICATIONS	Radian Communication Services, Inc	
GUYED TOWERS	Valmont	
Ca	tegory 7 Waveguides and Antennas	
Link to Specifications: http://www.ga.w	va.gov/pca/bids/02702-Phase2-Category7.doc	
Equipment	Link to Contractor	
Category 7 Waveguides and Antennas	Radio Frequency System	
	Category 8, Test Equipment	
Link to Specifications: http://www.ga.w	va.gov/pca/bids/02702-Phase2-Category8.doc	
Equipment	Link to Contractor	
2975 Digital PROJECT 25	Aeroflex	
	Aeroflex	

Contract No. 02702 Aeroflex

Contractor: Aeroflex Wichita, Inc.

Page number

Contact: John Rankin Alternate Contact: Chad Knudson, Area

Sales Engineer

Phone: 316-529-5204 Area Sales 800-835-2352 Ext 579

Engineer 316 529-5579 Direct

Fax: 316-522-3676 316-524-2623 Email: John.rankin@aeroflex.com Chad.knudson@aeroflex.com

Internet address: www.aeroflex.com

Web catalog address:

Federal ID No.: 48-0777904

Supplier No.: W42

Total Contract worth: \$500,000,000.00

Payment address: Aeroflex Wichita, Inc. Order placement Aeroflex Wichita, Inc.

10200 West York St address: 10200 West York St Wichita, KS 67215 Wichita, KS 67215

Customer Service: Rhonda Bundy

Telephone: 800-835-2352 ext 393

Fax: 316-524-2623

Ordering procedures:

Credit card acceptance: Visa, MasterCard, American Express

Minimum orders:

Delivery time: 6 to 8 weeks After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category CATEGORY 8, TEST EQUIPMENT

Equipment Line items

Link to bid Specifications http://www.ga.wa.gov/pca/bids/02702-Phase2-Category8.doc

Awarded Phase(s) Phase I & II

Aeroflex - Phase I & II

Volume Discount Program - Phase 1 and Phase 2 all categories

The volume discount will be cumulative and over the term of the contract. (Initial Term of Three [3] Years)

Additional Discount off	Cumulative Total	Cumulative Total
Net Contract Unit Price	Sales from:	Sales to:
1 %	\$5,000,000	\$9,999,999
1 %	\$10,000,000	\$14,999,999
1 %	\$15,000,000	\$19,999,999
0 %	\$20,000,000	\$29,999,999
0 %	\$30,000,000	\$39,999,999
0 %	\$40,000,000	\$49,999,999
0 %	\$50,000,000	\$59,999,999
0 %	\$60,000,000	\$69,999,999
0 %	\$70,000,000	\$79,999,999
0 %	\$80,000,000	\$89,999,999
0 %	\$90,000,000	\$99,999,999
0 %	\$100,000,000	\$100,000,000+

Aeroflex - Phase I & II

Category 8, Test Equipment Price Sheets

2975 Digital PROJECT 25

Req.	Part #	Description	Manufacturer
Item			List Price
		rder: Discount = 4% off Manufacturer List Price	
3 or m	ore Units for a Singl	e Order: Discount 5% off Manufacturer List Price	
	2975	Project 25 Radio Test Set	21,495
	2975OPT3	SmartNet/SmartZone Testing Option	4,000
	2975OPT4	P25 Trunking Radio Test Option	2,400
	2975OPT6	Control Channel Logger	3,000
	2975OPT8	SmartNet/SmartZone 900MHz (Requires Option 3)	900
	2975OPT9	Autotest 1	4,000
	2975OPT10	AES	2,000
	2975OPT12	KVL Keyloader Option	2,000
	2975OPT14	P25 Trunking VHF/UHF/ 700MHz	2,400
	2975OPT15	Audio Analyzer Option	2,000
	2975OPT16	Analog Simulcast Align Option (Requires 2975OPT15)	800
	2975OPT17	Rx BER Option	900
	2975OPT18	LTR Trunking Option	2,000
	2975OPT19	Passport © Option (Requires Version 1.9.x or later Firmware)	2,000
	2975OPT20	KVL ASN Mode Option (Requires 2975OPT12)	500
	2975OPT29	CQPSK Generate/Receive & Analysis	8,000
	2975OPT31	Windows AutoTest	1,495
	2975OPT21	P25 Secondary Ctrl Ch Broadcast Msg Option (Requires 2975OPT4 or Opt 14)	2,000
	2975OPT22	P25 Explicit Mode Operation (Requires 2975OPT14)	2,000
	2975OPT23	P25 Explicit Unit to Unit and PSTN Emulation Option (Requires 2975OPT22)	2,000
	2975OPT24	P25 Explicit Adjacent Status Broadcast Channel Message Option (Requires 2975OPT22)	2,000
	2975OPT27	SmartNet/SmartZone Rebanding Function 800MHz (Requires Opt3)	1,000
		Extended Standard Warranties for 2975	
	W2975/203	Extended Standard Warranty 36 Months	703
	W2975/205	Extended Standard Warranty 60 months	1226
		Extended Standard Warranties with Calibration for 2975	
	W2975/203C	Extended Standard Warranty 36 Months with scheduled calibration	1709
	W2975/205C	Extended Standard Warranty 60 Months with scheduled calibration	3215
		Accessories for 2975	
	AC25007	Microphone / Audio Adapter	300

Aeroflex – Phase I & II

Req.	Part #	Description	Manufacturer
Item			List Price
	9	ler: Discount = 4% off Manufacturer List Price	
3 or m	ore Units for a Single	Order: Discount 5% off Manufacturer List Price	
	AC25009	Paper Manual, E-Manual and Calibration Software	500
	AC25009CD	E-Manual and Calibration Software	350
	AC25011	Case, Transit W/Wheels	795
	AC25012	Case, Soft Padded Carrying	159
	AC25013	Kit, 10/20 dB Pads, TNC	117
	AC25014	Scope Probe Kit	85
	AC25023	Front/Rear Cover	99
	AC25027	TNC To BNC Adapter	25
	AC25029	Accessory Pouch	40
	AC25036	DC to AC Converter, 12VDC to 110-120VAC	695
	AC25042	HF Antenna	49
	AC25043	UHF Antenna	49
	AC25044	800MHz Antenna	49
	AC25045	VHF Antenna	49
	AC4105	Return Loss Bridge (1.3 GHz)	1,219
	CALFB2975	Calibration Certificate	495
	AC25046	Blue Streak 4 foot Cable BNC (m) -TNC (m) 50Ohm	299
	AC25047	Blue Streak 4 foot Cable N (m) -N (m) 500hm	249
	AC25049	Blue Streak 4 foot Cable BNC (m) -N (m) 50Ohm	249
	AC25050	QMA "Quick Connect" SMA - QMA Jack Adaptor	99
	AC25053	Blue Streak 3 foot Cable N (m) - QMA (m) "Quick Connect" 50 Ohm	299
	AC25054	"Quick Connect" Combo Kit AC25053 + AC25050	348
	AC25056	4ft Blue Streak QMA to QMA quick connect cable	199
	AC25057	AC25055 + AC25056 Combo Kit	1,050
	AC25081	Site Survey Software	7,995

Contract No. 02702 **Aeroflex – Phase II**

		Aeronex – Fliase II	
Req. Item	Part #	Description	Manufacturer List Price
1 or 2	Units for a Single Or	der: Discount = 4% off Manufacturer List Price	
3 or m	ore Units for a Single	e Order: Discount 5% off Manufacturer List Price	
		2945B SERIES COMMUNICATIONS SERVICE MONITOR	
	2945B	Communication Service Monitor, STD, English	18,995
	CALFB2945	Calibration Certificate - 2945B & 2948B	614
	Opt 1	600 Ohm Matching Unit	1,093
	Opt 2 *	Analog Systems Card	2,189
	Opt 3	High Stability OCXO (This Item is Fitted as Standard on 2948B)	1,093
	Opt 4	Centronics/Relay Drive (Cannot Be Fitted With Option 5)	683
	Opt 5	GPIB Interface (Cannot Be Fitted With Option 4)	533
	Opt 6	Memory Card Drive	533
	Opt 8	SSB Demodulator	1,639
	Opt 9	Occupied Bandwidth Measurement	1,093
	Opt 10	NMT Software For 2945B (Requires Option 2 To Be Fitted)	1,093
	Opt 11	AMPS Software For 2945B (Requires Option 2 To Be Fitted)	1,093
	Opt 12	TACS Software For 2945B (Requires Option 2 To Be Fitted)	1,093
	Opt 13	MPT 1327 Software For 2945B (Requires Option 2 To Be Fitted)	1,093
	Opt 14	PMRTEST Software For 2945B (Requires Option 2 To Be Fitted)	1,093
	Opt 15	EDACS Radio Software For 2945B (Requires Opt 2 To Be Fitted)	1,093
	Opt 16	EDACS Repeater Software For 2945B (Req. Opt 2 To Be Fitted)	1,093
	Opt 18	LTR For 2945B (Requires Option 2 To Be Fitted) (Availability TBA)	1,135
	Opt 21 *	Channel Demodulation Filter For 2945B	1,639
	Opt 22	POCSAG Software For 2945B	1,352
	Opt 23	CCITT Filter (Cannot Be Fitted With Option 24)	536
	Opt 24	CMESS Filter (Cannot Be Fitted With Option 23)	536
	Opt 26	Tone Remote	852
	Opt 29	Additional Notch Board	454
	Opt 30	Bail Arm Handle & Front Stowage Cover For 2945B	683
	Opt 31	IF Output Option	852
	Opt 32 *	Internal Battery Pack (2945B Only)	284
	9,102	* Only two of Options 2, 21 & 32 can be fitted to a 2945B at the same time.	20.
		Extended Standard Warranties for 294X Series	
	W2945B/203	Extended Standard Warranty 36 Months	479
	W2945B/205	Extended Standard Warranty 60 months	902
		Extended Standard Warranties with Calibration for 294X Series	
	W2945B/203C	Extended Standard Warranty 36 Months with scheduled calibration	1,276

Contract No. 02702 **Aeroflex – Phase II**

Req.	Part #	Description	Manufacturer List
Item			Price
		ler: Discount = 4% off Manufacturer List Price	
3 or m	ore Units for a Single	Order: Discount 5% off Manufacturer List Price	
	W2945B/205C	Extended Standard Warranty 60 Months with scheduled	2,403
	W 2343D/203C	calibration	2,403
		Accessories for 2945B Series	
	44991/145	Microphone For 2945B	249
	46662/571	Ever-Ready Padded Case For 2945B	636
	46662/616	Ever-Ready Padded Case For 2945B Fitted With Option 30	1,009
	46662/779	Soft Carrying Case	219
	46880/114	Service Manual 2945B	400
	46880/115	Service Manual 2948B	400
	46884/648	Serial Printer Interface Cable 1.5M	173
	46884/649	Serial Port To PC Cable 25Way 1.5M	183
	46884/650	Serial Port To PC Cable 9Way 1.5M	196
	46884/728	Rack Mounting Kit For 2945	239
	54112/163	Transit Case (Hard) For 2945	1,755
	54421/001	BNC Telescopic Antenna For 2945, 2955, 2965	101
	54421/002	Directional Power Head (HF) 1 MHz To 50 MHz For 2945, 2955B, 2965	4,958
	54421/003	Directional Power Head (VHF/UHF) 25 MHz To 1 GHz, 2945, 2955B, 2965	7,160
	54431/023	Attenuator, 20dB AF For 2945, 2965	211
	59000/375	Memory Card 2M For 2945B & 2965A Series	563
	59000/189	Memory Card 128K For 2945, 2965	460
	59999/170	RF Bridge	1,557
	AC1109W	Easyspan II – Windows – USA	695

Category 8, Test Equipment Price Sheets

Aeroflex: IFR 3920 Digital Radio Test Set

Req.	Part #	Description	Manufacturer List
Item			Price
1 or 2	Units for a Single	Order: Discount = 4% off Manufacturer List Price	
3 or m	nore Units for a Sin	ngle Order: Discount 5% off Manufacturer List Price	
	3920	Digital Radio Test Set 1MHz - 1GHz with Standard	27,995
		Analog Duplex Operation	
	390XOPT051	Site Monitoring Application	4,000

Aeroflex – Phase II

	Aeroflex – Phase II	
392XOPT053	DMM Hardware Option	1,000
390XOPT054	IQ Gen Modulation (for IQ Creator waveforms)	3,800
390XOPT055	Audio Analyzer Option	2,000
392XOPT058	2.7GHz Frequency Range Extension Option	2,000
390XOPT059	Autotest II for Analog FM & AM Radio Systems	4,000
390XOPT060	Harmonic and Spurious Test	3,000
390XOPT061	Tracking Generator for Spectrum Analyzer	1,000
390XOPT200	P25 Conventional Parametric Analysis with IMBE Vocoder and DES Encryption	2,000
390XOPT201	P25 Trunking VHF/UHF/700/800MHz (Requires 390XOPT200)	2,400
390XOPT204	LSM Generate and Receive/Analysis (Requires 390XOPT200)	8,000
390XOPT207	SmartNet / SmartZone Trunking Option	4,000
390XOPT209	KVL Keyloader Option (Requires 390XOPT200)	2,000
390XOPT212	Explicit Mode Trunking (Requires 390XOPT200 and 390XOPT201)	2,000
390XOPT216	P25 IMBE Vocoder Board (Update Price - On new units this is provided as standard)	795
390XOPT218	Autotest II for P25 Radio Systems (Requires 390XOPT200)	2,000
390XOPT240	AES Encryption (Requires 390XOPT200)	2,000
390XOPT250	Occupied Bandwidth for P25 (Requires 390XOPT 200)	2,000
390XOPT400	DMR (Moto TRBO) ETSE 102-361	2,000
390XOPT600	XTS-5000 Autotest/Alignment Software (Requires 390XOPT059 and OPT218)	2,000
390XOPT603	TIA/EIA-603 Land Mobile Radio Test Software (Requires 390XOPT059)	2,000
Accessories for	3920	
AC24009	DMM Test Leads for use with 392XOPT053. Category 3 rated.	166
AC24010	20 AMP Current Shunt 0.01 Ohm.	166
AC25011	Transit W/Wheels	795
AC25012	Soft Padded Carrying	159
AC25013	Kit, 10/20 dB Pads, TNC	117
AC25014	Scope Probe Kit	85
AC25023	Front/Rear Cover	99
AC25027	TNC To BNC Adapter	25
AC25029	Accessory Pouch	40
AC25036	DC to AC Converter, 12VDC to 110-120VAC	695
AC25042	HF Antenna	49
AC25043	UHF Antenna	49

Aeroflex – Phase II

1.025044	Aeronex – Phase II	40
AC25044	800MHz Antenna	49
AC25045	VHF Antenna	49
AC25055	QMA Adapter Kit (Includes 24 assorted adapters Type-N, BNC, TNC, SMA UHF,	899
AC25059	6 dB / 150 Watt 1.5 GHz Attenuator	525
AC25060	10 dB / 150 Watt 1.5 GHz Attenuator	525
AC25061	50 ohm 250 Watt 5 GHz Termination	675
AC4105	Return Loss Bridge	1,219
AC8645	Microphone	78
AC25046	Blue Streak 4 foot Cable BNC (m) -TNC (m) 500hm	299
AC25047	Blue Streak 4 foot Cable N (m) -N (m) 500hm	249
AC25049	Blue Streak 4 foot Cable BNC (m) -N (m) 50Ohm	249
AC25050	QMA "Quick Connect" SMA - QMA Jack Adaptor	99
AC25053	Blue Streak 3 foot Cable N (m) - QMA (m) "Quick Connect" 50 Ohm	299
AC25054	"Quick Connect" Combo Kit AC25053 + AC25050	348
AC25056	4ft Blue Streak QMA to QMA quick connect cable	199
AC25057	AC25055 + AC25056 Combo Kit	1,050
CALFB390X	Calibration Certificate	495
Extended Warr	anty Options	
W390X/203	Extended Standard Warranty 36 Months	1,035
W390X/205	Extended Standard Warranty 60 Months	2,067
W390X/203C	Extended Standard Warranty 36 Months with Scheduled Calibration	1,796
W390X/205C	Extended Standard Warranty 60 Months with Scheduled Calibration	3,591
Accessories Su	pplied as Standard for 3920	
AC25023	1 x Front/Rear Cover	
AC25027	2 x TNC to BNC Adapter	
	1 x N to BNC Adapter	
	1 x CD Manual	
	1 x AC Line Cord	
AC25043	1 x UHF Antenna	
AC25044	1 x 800MHz Antenna	
AC25045	1 x VHF Antenna	

Contract No. 02702 **Aeroflex – Phase II**

Req.	Part #	Description	Manufacturer List
Item			Price
1 or 2	Units for a Single Or	der: Discount = 4% off Manufacturer List Price	
3 or m	ore Units for a Single	e Order: Discount 5% off Manufacturer List Price	
		3500A Handheld Digital Radio Test Set	
	3500A	Handheld 1GHz Radio Test Set	14,995
	35XXOPT01	Spectrum Analyzer Option	1,000
	35XXOPT02	Oscilloscope Option	1,000
	35XXOPT07	P25 Test Option	3,000
	CALFB3500	Calibration Certificate - 3500A	395
		Accessories for 3500A	
	AC0820	Desk Top Stand	50
	AC0826	Tripod	225
	AC24006	Tripod, Dolly, Stand	295
	AC27001	Case, Transit	495
	AC27002	Attenuator (20 dB / 50 W), Adapter (N-F to BNC-F), Adapter (N-F)	595
		M to TNC-M)	

Contract No. 02702 **Aeroflex – Phase II**

-		Aeronex – Phase II		
Req. Item	Part #	Description	Manufacturer List Price	
1 or 2	Units for a Single O	rder: Discount = 4% off Manufacturer List Price		
3 or m	ore Units for a Singl	le Order: Discount 5% off Manufacturer List Price		
	A C27002	Attenuator (20 dB / 150 W), Adapter (N-F to BNC-F), Adapter	705	
	AC27003	(N-M to BNC-F)	795	
	AC27004	Case, Soft -Sided Carrying	99	
	AC27005	Battery, Spare	199	
	AC27006	Flip Cover	199	
	AC27008CD	Manual, CD, OP/ICW, 3500 (One Supplied Standard)	50	
	AC27009CD	Maintenance Manual (CD)	250	
	AC27010PP	Manual, Getting Started, 3500 (One Supplied Standard)	50	
	AC25042	Antenna (BNC) (50 MHz)	49	
	AC25043	Antenna (BNC) (450 MHz)	49	
	AC25044	Antenna (BNC) (800 MHz)	49	
	AC25045	Antenna (BNC) (150 MHz)	49	
	A COZO12	Directional Coupler (20 to 200 MHz), Adapter (N-M to BNC-F)	4 700	
	AC27013	Qty 2, Attenuator (10 dB), Cable (BNC) (M-M) (16 in) Qty 2	1,700	
	AC25055	QMA Adapter Kit (Includes 24 assorted adapters)	899	
	AC25056	4ft Blue Streak QMA to QMA quick connect cable	199	
	AC25057	AC25055 + AC25056 Combo Kit	1,050	
	AC25081	Site Survey Software	7,995	
		Extended Warranty Options	,	
	W3500/203	Extended Standard Warranty 36 Months	525	
	W3500/205	Extended Standard Warranty 60 months	989	
		Extended Standard Warranty 36 Months with scheduled		
	W3500/203C	calibration	1,715	
		Extended Standard Warranty 60 Months with scheduled		
	W3500/205C	calibration	3,145	
		Accessories Supplied as Standard for 3500A		
		1 x Case, Soft -Sided Carrying		
		1 x External DC Power Supply		
		1 x Power Cable (AC)		
		1 x Handset		
		1 x Short-Open-Load VSWR Calibrator		
		1 x Comm Breakout Box		
		1 x Cable (TNC) (M-M) (48 in)		
		2 x Cable (BNC) (M-M) (48 in)		
		5 x Adapter (BNC-F to TNC-M)		
		2 x Fuse, Spare (5 A, 32 Vdc, Type F)		
		1 x Case, Accessory		
		1 x Power Cable (DC cigarette lighter)		
		1 x Getting Started Manual (Paper)		
		1 x Operation/ICW Manual (CD)		

Aeroflex – Phase II

Req.	Part #	Description	Manufacturer List
Item			Price
1 or 2	Units for a Single Ord	der: Discount = 4% off Manufacturer List Price	
3 or m	ore Units for a Single	Order: Discount 5% off Manufacturer List Price	
		1 x AC25044 Antenna (BNC) (800 MHz)	
		1 x AC25045 Antenna (BNC) (150 MHz)	
		1 x AC25043 Antenna (BNC) (450 MHz)	
		1 x AC25042 Antenna (BNC) (50 MHz)	
		1 x Flash Drive, 1 GB USB	

Alcatel-Lucent USA Inc.

600 March Road, Ottawa, ON

order.now@alcatel-lucent.com

Alcatel-Lucent c/o Order

K2K 2E6 CANADA

Fax: 613-599-3632 Email address:

Phone: 613-784-4227

Toll Free: 800-777-6804

Administration.

Contract No. 02702 Alcatel-Lucent USA Inc.

CONTRACTOR INFORMATION

Contractor: Alcatel-Lucent USA Inc.

Page numberhttp://www.ga.wa.gov/pca/bids/02702-Phase2-Category5.docContact:Merle WattAlternate Contact:Glenn EstesPhone:307-775-9806972-477-5009Fax:972-477-1408972-477-8288

Email: Merle.watt@alcatel- Glenn.i.estes@alcatel.com

lucent.com

Internet address: http://www.alcatel.com/

Product Catalog Radio: http://www.ga.wa.gov/pca/contract/02702-Alcatel-Microwave-Network-102804.xls

Product Catalog Network:

Alcatel Phase 1
Discounts 2007.pdf

Microwave Price Catalog 2007.pdf

Federal ID No.: 22-3408857 **Supplier No.:** W1159

Total Contract worth: \$500,000,000.00

Payment address: Alcatel-Lucent USA Inc.

Alcatel-Lucent USA Inc. Order placement
Wire Remit Address address:

Alcatel-Lucent

J.P. Morgan Chase Bank Account # 9101449099 ABA # 021000021 New York, NY 10081

Overnight Check Remit

Address

Bank of America 6000 Feldwood Road Lockbox # 100317 College Park, GA 30349

Regular Mailing Address

Alcatel-Lucent PO Box 100317

Attn: Accounts Receivable Atlanta GA 30384-0317

Customer Service:Juanita BrownTelephone:613-784-4227Fax:613-599-3632

Ordering procedures: Contact Local Sales Rep

Credit card acceptance: None **Minimum orders**: None

02702c.doc REV 2007-10-15

Contract No. 02702 **Alcatel-Lucent USA Inc.**

Delivery time: 90 days After Receipt of Order (ARO) All Specialized Configurations orders

shall not exceed 120 days.

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category 5, Microwave

Equipment Line items

Link to bid Specifications http://www.ga.wa.gov/pca/bids/02702-Phase2-Category5.doc

Awarded Phase(s) Phase I & II

Contract No. 02702 Alcatel-Lucent USA Inc.



Walt Paskowski – Sales VP 703-244-2912

Contract No. 02702

Alcatel

Phase 1 Product DISCOUNTS

MDD 0000 DIGWELL DADIO (ALL OPPIONS	Afor Diagonalia
MDR-8000 DIGITAL RADIO / ALL OPTIONS	25% DISCOUNT
MDR-8706s 6GHz – SONET (OC-3)	50% DISCOUNT
MDR-8706s COMMPACK 6GHz – SONET (OC-3)	45% DISCOUNT
MDD 0711 11QH GONET (QC 2)	700/ DIGGOLDIT
MDR-8711s 11GHz – SONET (OC-3) MDR-8711s 11GHz COMMPACK SONET (OC-3)	50% DISCOUNT 45% DISCOUNT
MDR-6/118 HOHZ COMMIT ACK SONET (OC-3)	45% DISCOUNT
MDR-8605u-5.8GHz NORTH AMERICAN	
(DS3) SIGNAL INTERFACE	45% DISCOUNT
COMMPACK (DS3) SIGNAL INTERFACE	43% DISCOUNT
MDR-8606 – 6GHz NORTH AMERICAN	
(DS3) SIGNAL INTERFACE	50% DISCOUNT
COMMPACK (DS3) SIGNAL INTERFACE	47% DISCOUNT
MDR-8611-11GHz NORTH AMERICAN	500/ DICCOLINE
(DS3) SIGNAL INTERFACE	50% DISCOUNT
COMMPACK (DS3) SIGNAL INTERFACE	47% DISCOUNT
MDR-8505u-5.8GHz -UNLICENSED – NORTH AMERICAN	
2 DS-1 RADIO	32% DISCOUNT
COMMPACK 2 DS-1 RADIO	18% DISCOUNT
4 DS-1 RADIO	38% DISCOUNT
COMMPACK 4 DS-1 RADIO	30% DISCOUNT
8 DS-1 RADIO	49% DISCOUNT
COMMPACK 8 DS-1 RADIO	44% DISCOUNT
16 DS-1 RADIO	54% DISCOUNT
COMMPACK 16 DS-1 RADIO	50% DISCOUNT
MDD 0V04 (GVI VODEVI I MEDICALV	
MDR-8X06-6GHz - NORTH AMERICAN 2 DS-1 RADIO	37% DISCOUNT
2 DS-1 RADIO COMMPACK 2 DS-1 RADIO	29% DISCOUNT
COMMINER 2 DD T RADIO	2) / DISCOULT
4 DS-1 RADIO	43% DISCOUNT
COMMPACK 4 DS-1 RADIO	37% DISCOUNT
8 DS-1 RADIO	52% DISCOUNT
COMMPACK 8 DS-1 RADIO	48% DISCOUNT
COMMITTER ODS I RADIO	4070 DISCOUNT
12 DS-1 RADIO	55% DISCOUNT
COMMPACK 12 DS-1 RADIO	51% DISCOUNT
16 DS-1 RADIO	56% DISCOUNT
COMMPACK 16 DS-1 RADIO	52% DISCOUNT
	32,0 213000111
MDR-8x10 10/11GHz - NORTH AMERICAN	
2 DS-1 RADIO	37% DISCOUNT
COMMPACK 2 DS-1 RADIO	29% DISCOUNT

Current	Contract	Information

Contract No. 02702

Page 29

Alcatel

4 DS-1 RADIO	45% DISCOUNT
COMMPACK 4 DS-1 RADIO	37% DISCOUNT
8 DS-1 RADIO	52% DISCOUNT
COMMPACK 8 DS-1 RADIO	48% DISCOUNT
12 DS-1 RADIO	55% DISCOUNT
COMMPACK 12 DS-1 RADIO	51% DISCOUNT
16 DS-1 RADIO	56% DISCOUNT
COMMPACK 16 DS-1 RADIO	52% DISCOUNT
RACK OPTIONS	25% DISCOUNT
RADIO NETWORK MANAGEMENT	25% DISCOUNT

Phase II Category 5, Microwave

Alcatel

Manufacturer	Freq. Band	Capacity in T1's	Part number	Total Price				
Hot Standby - Terminal – 6 GHz								
Alcatel	6 Ghz	8T	MDR-8706-8-29-HS	\$21,266				
Alcatel	6 Ghz	16T	MDR-8706-16-29-HS	\$22,709				
	Non-Hot Standby – Terminal – 6 GHz							
Alcatel	6 Ghz	8T	MDR-8706-8-29	\$12,410				
Alcatel	6 Ghz	12T	MDR-8706-12-29-NS	\$12,570				
Alcatel	6 Ghz	16T	MDR-8706-16-29-NS	\$13,007				
		Hot Sta	andby – Terminal – 11 GHz					
Alcatel	11 GHz	12T	MDR-8710-12-27-HS	\$24,765				
Alcatel	11 GHz	16T	MDR-8710-16-27-HS	\$25,699				
		Non-Hot	Standby – Terminal – 11 GHz					
Alcatel	11 GHz	12T	MDR-8710-12-27-NS	\$14,282				
		Hot Sta	andby - Terminal – 18 GHz					
Alcatel	18 GHz	16T	9418-AWY-16-HS	\$11,406				
Alcatel	18 GHz	28T	9418-AWY-28-HS	\$14,233				
		Non-Hot	Standby – Terminal – 18 GHz	·				
Alcatel	18 GHz	16T	9418-AWY-16-NS	\$6,996				
		Hot Sta	andby – Terminal – 23 GHz	·				
Alcatel	23 GHz	16T	9423-AWY-16-HS (with 1 ft. antenna)	\$12,006				
Alcatel	23 GHz	28T	9423-AWY-28-HS (with 1 ft. antenna)	\$14,833				
Alcatel	23 GHz	SONET-OC3	MDR-9X23S-HS (no DS1 access)	\$29,262				
		Non-Hot	Standby - Terminal – 23 GHz					
Alcatel	23 GHz	16T	9423-AWY-16-NS (with 1 ft. antenna)	\$7,596				
		Hot St	andby – Repeater – 6 GHz					
Alcatel	6 GHz	8T	MDR-8706-8-29-HS	\$41,970				
Alcatel	6 GHz	16T	MDR-8706-16-29-HS	\$44,855				
		Non-Hot	Standby – Repeater – 6 GHz					
Alcatel	6 GHz	8T	MDR-8706-8-29-NS	\$24,258				
Alcatel	6 GHz	16T	MDR-8606-16-29-NS	\$25,451				
Alcatel	6 GHz	SONET-OC3	MDR-8706s-155-29-NS	\$31,911				
		Hot Sta	andby – Repeater – 18 GHz					
Alcatel	18 GHz	16T	9418-AWY-16-HS	\$21,726				
Alcatel	18 GHz	28T	9418-AWY-28-HS	\$25,664				
		Non-Hot	Standby – Repeater – 18 GHz					
Alcatel	18 GHz	16T	9418-AWY-16-NS	\$12,906				
		Hot Sta	andby – Repeater – 23 GHz					
Alcatel	23 GHz	16T	9418-AWY-16-NS	\$22,926				
Alcatel	23 GHz	28T	9423-AWY-28-HS (with 1 ft. antenna) \$26,864					
Alcatel		SONET-OC3	MDR-9X23S-HS (No DS1 access)	\$57,438				
Non-Hot Standby - Repeater – 23 GHz								
Alcatel	23 GHz	16T	9423-AWY-16-NS (with 1 ft. antenna)	\$14,106				

WSP System Rack Configuration & Management

Each rack pricing shall contain and/or include:

- 3 ea. WSCA compliant 6 GHz Sonet-OC3, space diversity capable microwave terminal.
- 1 ea. Multi-Service Platform (ATM)Router with 2ea 1-Port OC3, 1ea 3-port DS3, 1ea 4-Port Ethernet and 1ea 8-Port T1 Cards as a standard configuration.
- 2 ea. T1/E1 Channel Bank Multiplexer with 2 FXO, 2 FXS and 12 4-wire E&M Channel Cards as a standard configuration.
- 1ea 1RU Fuse Panel
- 1ea Rack Isolation and Bracing Kit (per R56 Standard)
- Option to add DS3 WSCA compliant Microwave radio

Each rack will need to reserve room for:

- VF Jackfield (2RU)
- T1 / Ethernet RJ045 Jackfield (1RU)
- Wayside T1 Router (1RU)
- Wayside Ethernet 16 port switch (1 RU)

Network Management:

• All OC3 & DS3 Radios, Multi-Service Platform (ATM) Routers and T1/E1 Channel Bank Multiplexers must be managed by a single Network Management System.

Req. Item	Description	*Qty	Unit	Unit Price	Total Price	
1.	Complete Microwave Rack					
	Description *Qty Unit Unit Price					
	Total Price					
	• 3 each 6 GHz OC-3, space	1	EA	\$60,361	\$60,361	
	diversity radios with +29 dBm power output, 7' Seismic rack, 19"					
	wide, with PDU, and grounding kit.					
	• 1 ea. 7270 Multi-Service Platform	1	EA	\$43,455	\$43,455	
	(ATM)Router with 2ea 1-Port OC3,					
	3ea 1-port DS3, 1ea 4-Port Ethernet					
	and 1ea 8-Port T1 Cards as a					
	standard configuration. Please see					
	Attachment C for 7270 configuration details					
		1	EA	\$8,540	\$8,540	
	• 2 ea. 3630 T1/E1 Channel Bank					
	Multiplexer with 2 FXO, 2 FXS					
	and 12 4-wire E&M Channel ports as a standard configuration. Please					
	see Attachment D for configuration					
	details.					
	• Not included in Missessesses as al-	1	EA	\$5,355.45	\$5,355.45	
	• Not included in Microwave rack, but included in solution is the 5620					
	Network Management. This price					
	reflects network management for					
	55 racks as described above. Please					
	see Attachment E for configuration details					
Total price \$1						

Response on the 18 and 23 Ghz Space Diversity pricing.

The 18 and 23 Ghz space diversity configurations are non-standard. The configuration is accomplished by combining two non-standby ODU's with a Hot-standby IDU. The manufacturing build cost is similar to the cost to build two non-standby terminals so the pricing has been set up to reflect the non-standby pricing. The pricing for a 18 Ghz OC3 terminal discounted is \$15,701 per the WSCA pricing. Doubling it for the space diversity configuration brings us to the \$31,402. the other 18 and 23 Ghz configurations are similarly priced.

Req. Item	Description Not for bid award, this pricing will be use to add and remove equipment as require per site location.	Qty	Unit	Unit Price	Total Price
1.	6 GHz Sonet-OC3, space diversity capable microwave terminal +29 dBm, Non Standby, Space Diversity		EA	\$20,363*	\$20,363*
2.	11 GHz Sonet-OC3, space diversity capable microwave terminal +27 dBm, Non Standby, Space Diversity		EA	\$21,838*	\$21,838*
3.	18 GHz Sonet-OC3, space diversity capable microwave terminal	1	EA	\$31,402*	\$31,402*
4.	23 GHz OC3 Sonet-OC3, space diversity capable microwave terminal	1	EA	\$32,484*	\$32,484*
5.	6 GHz DS3 space diversity capable microwave terminal +29 dBm, Non Standby, Space Diversity	1	EA	\$17,725*	\$17,725*
6.	11 GHz DS3 space diversity capable microwave terminal +27 dBm, Non Standby, Space Diversity	1	EA	\$19,200*	\$19,200*
7.	18 GHz DS3 space diversity capable microwave terminal	1	EA	\$9,700*	\$9,700*
8.	23 GHz DS3 space diversity capable microwave terminal	1	EA	\$9,700*	\$9,700*

9.	Multi-Service Platform (ATM) Router with 2ea 1-Port OC3, 1ea 3- port DS3, 1ea 4-Port Ethernet and 1ea 8-Port T1 Cards as a standard configuration.	1	EA	\$43,455*	\$43,455*
10.	T1/E1 Channel Bank Multiplexer with 2 FXO, 2 FXS and 12 4-wire E&M Channel Cards as a standard configuration.		EA	\$4,270*	\$4,270*
11.	1RU Fuse Panel	1	EA	\$341*	\$341*
12.	Rack Isolation and Bracing Kit (per R56 Standard	1	EA	\$113*	\$113*
13.	5620 EN Values: • 7470 = 40 points • 7270 = 20 points • 3600 = 10 points • 3630 = 5 points • MDR8000s = 2 points	1pt	EA	\$125*	\$125*

^{*}Pricing from the WSCA Contract.

Communications – Applied Technology

RF PERF	RF PERFORMANCE 2.47 GHz BAND RADIO				
Purpose The purpose of this section is to define the RF performance characteristics for radio equipment operating in the 2.47 GHz microwave radio band.			Read and Understood		
All radio equence the req	Regulatory Compliance All radio equipment supplied under this contract shall meet the requirement of the approved Sub-Sections of Volume 47 of the Federal Code of Regulations.				
Configurati	on				
The equipme in a hot-stan	ent supplied for this band dby version having redu power and multiplex cor	ndant receiver,	Comply		
Frequency	Range and Bandwidth				
The equipm	ent supplied for this bang requirements:	d shall comply with	Comply		
Capacity	Frequency in MHz	RF Bandwidth in MHz			
2xDS1	2450-2483.5	1.25	Comply		
4 xDS1	2450-2483.5	2.5	Comply		
8 xDS1	2450-2483.5	2.5	Comply		
•	provide other bandwidt compliant with the cur-	-	Read and Understood		
Feedline Co	onnection		Comply		
The antenna connection shall be a Type-N female. If an adapter is required to convert from the standard connector on the radio unit, it shall be supplied and included in the unit price.			Comply		
The system shall operate with an antenna system with a peak return loss of 18 dB or greater.			Comply		
A single feedline connection point shall be provided for all radio configurations except space diversity. Space diversity configurations shall have two feedline connection points, one for one receiver and any transmitters and the other for the diversity receiver.		Comply			
RF Power	Levels				

The equipment shall have a minimum output high-power level of +33dBm and low-power level of less than or equal to +15dBm	Comply	The high-power level will be + 34 dBm. Low-power level will be + 14 dBm.
Power levels shall be measured at the feedline connection point and shall include all branching losses. Hot-standby configurations may have power levels reduced from the levels listed above to account for switching losses.	Comply	
Automatic transmitter power control (ATPC) shall be available as an option. It shall be capable of being disabled in the field by operator programming.	Comply	
General Transmitter Specifications		
Frequency stability shall be ± 0.001 percent or greater over the full operating range of the equipment.	Comply	
The transmitter shall be fully solid state.	Comply	
Failure of a redundant amplifier in hot-standby configurations shall not reduce the power output from the radio.	Comply	
Replacement of a failed redundant (standby) amplifier shall not cause a system outage.	Comply	
The transmitter shall be equipped with ability to monitor output power and frequency on an in-service basis.	Comply	
Receiver Thresholds		
Receivers shall have the following guaranteed receive thresholds as a maximum level to obtain a BER 1x10E-3 in a non-protected configuration.	Comply	

Guaranteed capacity at minimum Received Signal				
Level (RSL) in dBm as listed below.				
2 - DS-1 -87	Comply			
4 - DS-1 -84	Comply			
8 - DS-1 -77	Comply			
Received threshold levels shall be measured at the	Comply			
feedline connection point and shall include all branching				
losses.				
Interference Criteria				
Threshold to interference (T/I) ratios for a like signal	Comply			
required are shown below for the following scenarios:				
2.00.1 4.00.1 0.00.1				
2 DS-1 4 DS-1 8 DS-1				
Co-Channel	Comply			
28 28 28				
Adjacent Channel				
-8 -8	Comply			
General Receiver Specifications				
The receiver frequency stability shall be ± 0.001 percent	Comply			
or better over the operating range of the receiver.				
The receiver shall have a maximum received signal limit	Comply			
of not less than -17dBm when at a 1 in 10^{-3} BER.				
The dynamic range of the receiver shall be a minimum of	Comply			
58 dB.				

Req.	Description	*Qty	Unit	Unit Price	Total Price
Item					
1	2.47 GHz, Digital Radio, Hot Standby,	10	EA	\$19,883.00	\$198,830.00
	2XDS1, High Power (+34dBm)				
	For Product Bid State:				
	Mfg.: Alcatel USA Marketing, Inc.				
	Brand/Model: <u>MDR-8502-2-34-HS</u>				
2.	2.47 GHz, Digital Radio, Hot Standby,	10	EA	\$20,644.00	\$206,440.00
	4XDS1, High Power (+34dBm)				
	For Product Bid State:				
	Mfg.: Alcatel USA Marketing, Inc.				
	Brand/Model: MDR-8502-4-34-HS				
3.	2.47 GHz, Digital Radio, Hot Standby,	10	EA	\$21,928.00	\$219,280.00
	8XDS1, High Power (+34dBm)				
	For Product Bid State:				
	Mfg.: Alcatel USA Marketing, Inc.				
	Brand/Model: <u>MDR-8702-8-34-HS</u>				
				11	
Total price for bid evaluation and award					\$624,550.00
The listed prices represent % off manufacturer list price					45,47 & 51%
					Respectively

^{*}The Qty is an estimate usage; the actual qty will be dependent on funding and the final system design.

CONTRACTOR INFORMATION

Contractor: Communications-Applied Technology

Page number

Contact: Seth Leyman Alternate Contact: Josie Leyman
Phone: 800-229-3925
Fax: 703-471-4428
Email: leymans@c-at.com
Alternate Contact: Josie Leyman
800-229-3925
703-471-4428
leymanj@c-at.com

Internet address: www.c-at.com

Web catalog address:

Federal ID No.: 54-1215868

Supplier No.: W83

Total Contract worth: \$500,000,000.00

Payment address: Communications-Applied Order placement Communications-Applied

Techlology address: Techlology

11250 – 14 Roger Bacon Dr Reston, VA 20190-5202 11250 – 14 Roger Bacon Dr Reston, VA 20190-5202

Customer Service: Seth Leyman Telephone: 800-229-3925

Fax: 703-471-4428

Ordering procedures:

Credit card acceptance: Visa, MasterCard

Minimum orders:

Delivery time: 60 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category Category 4, Gateway Devices; Item B, ICR Unit

Equipment Line items
Link to bid Specifications
Link to Price Sheets

Awarded Phase(s) Phase II

Communications – Applied Technology – Phase II

The purpose of this section is to purchase an audio switch unit(s) that has interface adapters for a variety of communications devices and mediums (VHF/UHF radio, telephone or Satcom, HF radio, local operator, etc.). The switch shall consist of a small portable control unit containing all audio and switching circuitry, medium interface connectors, controls and indicators. Accessory adapters for a variety of external communications devices and mediums shall be supported.

Category 4, Specifications for ICRI audio switch

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ICRI Ordering/Part No.: 500.9250 with single talk group; 500.9260 with two talk groups for all ports with external control switches

ICRI RX Audio Input

Input Impedance: Unbalanced, 80 ohms nominal.

Input level: -32 dBm to + 12 dBm, no adjustment required.

Frequency Response: 280 Hz to 3400 kHz ± 2dB.

VOX Attack Time: Less than 2 ms, nominal, for typical speech.

VOX Threshold: Adjustable –32 to –6 dBm.

VOX Hang Time (Tail Time): Adjustable 0.5 to 2 seconds.

VOX Timeout Timer: Adjustable 30 to 90 seconds.

ICRI TX Audio Output

Output Impedance: Unbalanced, 1000 ohms nominal.

Output Level: -40 to -18 dBm, adjustable.

Frequency Response: 280 to 3400 Hz + 2dB

Audio Delay: Both nets, individually adjustable; 0, 50, 100,150, 200, 250, 300, 350, 400 and 500 ms.

ICRI PTT Output

Output Type: Dual, (a) open drain; (b) open drain shunting 6.65 K control resistor (Motorola Saber/AstroSaber compatibility).

Polarity: Active low.

Maximum Sink Current: 200 ma.

Maximum Open Circuit Voltage: + 60 vdc.

Acoustic Coupler Interface

Compatibility: C-AT part no. 179.0655, with electret microphone.

VOX Attack Time: Less 2 ms, nominal, for typical speech

VOX Hang Time: Adjustable 0.5 to 2 seconds.

Cellular/Auxiliary Input

Input Type: Unbalanced

Input Range/VOX Threshold: -50 to +10 dBm, adjustable.

VOX Attack Time: Less 2 ms, nominal, for typical speech

VOX Hang Time: Adjustable 0.5 to 2 seconds.

VOX Timeout Timer: Adjustable 30 to 90 seconds.

Output Type: Unbalanced.

Output Range: -40 to +3 dBm, adjustable.

Handset

Compatibility: C-AT part number 280.0125 handset with noise canceling electret microphone and PTT bar.

Description

Handset Volume Control: 70 dB range.

Initiation: PTT bar.

General/Environmental

ICRI Controls: Guarded, power on/off switch; switches (7), handset volume control., Talk

Group1/OFF/Talk Group 2 (ICRI 500.9260 only)

ICRI Indicators: Power "OK" LED, power "LOW" LED, channel active LEDs (7).

ICRI connectors: Positive lock, Radio channel I/O (5), Coupler/Cellular/auxiliary input connector, handset connector, power connector.

DC Input Power: +6.5 to +20 VDC @ 0.15A maximum.

AC Input Power: 115 to 230 VAC + 15%, 47-63 Hz, 3 VA maximum (with 320.0431 ac adapter).

Weight: 3.3 lbs. (1.5 kg), without adapters and accessories.

Size: 3.5" H X 10.0" W X 7.0" D (8.9 X 25.4 X 17.8 cm), excluding control panel connectors/switch protrusions.

Temperature: Operating: -20 to +60 degrees C; storage: -40 to +85 degrees C.

Humidity: Up to 95% @ 55 degrees C.

Shock: Suitable for mobile and portable environments.

Vibration: Suitable for mobile and vehicular environments

Provide product support for 7 years after last unit being purchase from this RFP.

PRICE SHEETS

Req. Item	Comm.	Description	Unit Price
1.		C-AT ICRI with dual talk group capability	\$7,500
		Product Bid State:	
		Mfg.: Communications-Applied Technology Model: 500.9260	
2.		C-AT ICRI with single talk group capability	\$4,500
		Product Bid State:	
		Mfg.: Communications-Applied Technology Model: 500.9250	
3.		ICRI Audio buffer/delay for ICRI models 500.9250 and 500.9260 when used with trunked radios	\$250
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 500.9311	
4.		Battery pack (8 "AA" batteries not provided)	\$75
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 160.3611	
5.		Adapter/cable for ICRI to 8 "AA" battery pack	\$120
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 180.0450	
6.		ICRI DC input cable, dual mode	\$75
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0730	
7.		ICRI 115V AC power supply	\$120
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 320.0431	
8.		ICRI Waterproof case (based on Pelican 1550) with die-cut foam insert	\$275
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 990.9602	
9.		ICRI Waterproof case (based on Pelican 1600) with die-cut foam insert	\$300
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 990.9601	

Req. Item	Comm. Code	Description	Unit Price
10.		ICRI 250' universal audio extension cable on reel	
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.6206	
11.		ICRI Handset with P-T-T and coiled cord	\$200
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 280.0125	
12.		Bracket for mounting ICRI in a 19" rack, 2U space required (hardware included)	\$175
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 200.7000	
13.		Cable, ICRI-to-ICRI link to expand # of participants in a talk group, 6'	\$60
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0656	
14.		Cable, acoustic coupler, ICRI-to-cellular phone/Satellite phone/ land-line telephone handsets	\$165
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0655	
15.		Cable, 2.5mm jack, ICRI-to-cell phones & Nextel in telephone mode	\$55
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0672	
16.		Cable, ICRI-to-Nextel i90 and similar models. Nextel operation 2-way radio mode	\$150
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0677	
17.		Cable, ICRI-to-Nextel i1000 and similar models. Nextel operation 2-way radio mode	\$110
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0678	
18.		Cable, universal ICRI-to-portable radio (requires radio speaker-mic assembly to be provided for temporary disassembly)	\$70
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0734	

Req. Item	Comm. Code	Description	Unit Price
19.		Cable, ICRI-to-Bendix King LMH radio	\$133
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0670	
20.		Cable, ICRI-to-Bendix King LPH radio	\$133
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0671	
21.		Cable, ICRI-to-Bendix King EPH radio	\$136
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0673	
22.		Cable, ICRI-to-Ericsson Jaguar (includes in-line amplifier)	\$230
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0733	
23.		Cable, ICRI-to-Ericsson LPE-200 (includes in-line amplifier)	\$230
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0662	
24.		Cable, ICRI-to-Ericsson M-PA (includes in-line amplifier)	\$230
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0660	
25.		Cable, ICRI-to-Ericsson M-RK (includes in-line amplifier)	
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0661	
26.		Cable, ICRI-to-Ericsson Panther 500 & KPC	\$230
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0732	
27.		Cable, ICRI-to-military radio (radios compatible with H-250/U or H-350/U handsets incl. PRC-119/117, MBITR, SINCGARS)	\$125
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0600	
28.		Cable, ICRI-to-military PRC-127 radio	\$125
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0600	

Req. Item	Comm. Code	Description	Unit Price
29.		Cable, ICRI-to-Motorola Jedi Series radios incl. HT-1000, MT-2000, XTS-3000/3500/5000	\$230
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0630	
30.		Cable, ICRI-to-Motorola radios incl. MT-1000, HT-600, P-200 (Radius)	
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0640	
31.		Cable, ICRI-to-Motorola GP-350 radio	\$160
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.6018	
32.		Cable, ICRI-to-Motorola radios incl. GTX, LTS2000, GP300, P1225 (Radius)	\$160
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0634	
33.		Cable, ICRI-to-Motorola radios incl. HT-1250, HT-750	\$160
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0735	
34.		Cable, ICRI-to-Motorola Saber & AstroSaber	\$230
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.0710	
35.		Cable, ICRI-to-radios compatible with Hirose 6-pin connector	\$120
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT p/n 179.1910	
36.		Cable, ICRI-to-Kenwood series 280,290,380,390,480 (UHF and VHF)	\$160
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT P/N 179.0136	
37.		Cable, ICRI-to-Kenwood series 208,220,240,248,250,260,360 (UHF and VHF)	\$160
		Product Bid State:	
		Mfg.: Communications-Applied Technology C-AT P/N 179.6013	

The volume discount will be cumulative and over the term of the contract. (Initial Term of Three [3] Years)

Additional Discount off	Cumulative Total	Cumulative Total
Net Contract Unit Price	Sales from:	Sales to:
25 %	\$ 5,000,000	\$ 9,999,999
25 %	\$ 10,000,000	\$ 14,999,999
25 %	\$ 15,000,000	\$ 19,999,999
25 %	\$ 20,000,000	\$ 29,999,999
25 %	\$ 30,000,000	\$ 39,999,999
25 %	\$ 40,000,000	\$ 49,999,999
25 %	\$ 50,000,000	\$ 59,999,999
25 %	\$ 60,000,000	\$ 69,999,999
25 %	\$ 70,000,000	\$ 79,999,999
25 %	\$ 80,000,000	\$ 89,999,999
25 %	\$ 90,000,000	\$ 99,999,999
25 %	\$100,000,000	\$ 100,000,000+

Ceragon - Phase I

Contractor: Ceragon Networks

Contact: Paul Smith Alternate Contact: Scott Sweetland

Phone: (201) 853-0220 201-853-0226

Fax: 585-720-0718 603-886-8523

Email: <u>pauls@ceragon.com</u> <u>scott@ceragon.com</u>

Internet address: www.ceragon.com

Web catalog address:

Federal ID No.: 22-3642164

Supplier No.: W1919

Total Contract worth:

Payment address: 10 Forest Ave Order placement 10 Forest Ave

Paramus, NJ 07652 address: Paramus, NJ 07652

Customer Service: Carmelo Menor

Telephone: 201-853-0257

Fax: 201-845-5665

Ordering procedures:

Credit card acceptance: No

Minimum orders:

Delivery time: 60 Days ARO

Payment terms: Net 30

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization:

Corporate Address 10 Forest Avenue, Paramus, NJ 07652 (201) 845-6955

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Cergon 2007 price

Awarded Phase(s) Phase I

CONTRACTOR WAREHOUSE Proposer(s) shall indicate below each warehouse location at which material, equipment or supplies will be stored.

ADDRESS:	Ceragon Networks	PHONE:	(201) 853-0254
	10 Forest Ave, Suite 120	CONTACT:	Raz Koren
	Paramus, NJ 07652		
AUTHORIZE	D RESELLERS OF CERAGON PRODUC	CTS AND SERVICE	
ADDRESS:	HUTTON Communications	PHONE:	(877) 648-8866
	945 Spice Islands, Suite B	— CONTACT:	
	Sparks, NV 89431	_	
		<u> </u>	
ADDRESS:	GE/MDS	PHONE:	(585)242-8415
	175 Science Parkway	CONTACT:	Charles Miller
	Rochester, NY 14620		charles.miller3@ge.com
ADDRESS	TEMPEST Telecom http://www.tempesttelecom.com	PHONE:	Dave Smargon, VP of Supply & Sales Operations
		CONTACT:	(805) 690-3344 x 244
		_	dsmargon@tempesttelecom.com
	Indicate below the names and addre ility to service state agencies including loc immediate attention to problem areas as	al sales representation	
NAME:	Scott Sweetland	NAME:	Paul Smith
ADDRESS:	One Chestnut St., #337	ADDRESS:	125 Bram Hall Drive
	Nashua, NH 03060		Rochester, NY 14Rochester, NY

FACTORY AUTHORIZED SERVICE:

CVO

201-853-0226

VP Sales, US&Canada, Corporate

TERRITORY:

PHONE:

Factory authorized service must be available in the destination area. List your service centers including name and address of each.

14626

TERRITORY:

PHONE:

US Direct Sales

201-853-0220

FIRM NAME: Ceragon Networks, Inc.

ADDRESS: 10 Forest Ave, Suite 120

Paramus, NJ 07652

Customer Quotation

Quote Form_v4_10 1606

Date: October 27, 2006

Link Description: Itemized Licensed Equipment Pricing, FibeAir 1500P

Quote #: SAS102706-1

Discount:

35%

Terms: Net 30, subject to credit approval (See Note 5 Below)

Delivery Point: Ex-Works, Paramus, NJ

Customer Contact & Phone: WSCA

Contract

Ext. Warranty/Period:

N/A

Ceragon Contact & Phone: Paul

Obert, 603-886-8503

Delivery²: 60 days

ARO

Contract No. 02702 **Daniels Electronics**

Contractor: Daniels Electronics, Ltd.

Contact: Douglas Bigrigg Alternate Contact: Mark Waldie

Phone: 1-800-664-4066 1-800-664-4066 Fax: 1-877-750-0004 1-877-750-0004

Email: douglas bigrigg@danelec.com mark waldie@danelec.com

Internet address:

Product catalog address: http://www.ga.wa.gov/pca/contract/02702-Daniels-Radio-100704.pdf

Federal ID No.:

Supplier No.: W3347

Total Contract worth:

Payment address: Daniels Electronics Ltd. Order placement Daniels Electronics Ltd.

43 Erie Street, address: 43 Erie Street,

Victoria, BC, Canada V8V 1P8 Victoria, BC, Canada V8V 1P8

Customer Service: Rich Sanchez

Telephone: 1-800-664-4066

Fax: 1-877-750-0004

Ordering procedures:

Credit card acceptance: VISA, MasterCard

Minimum orders:

Delivery time: 120 Days ARO

Payment terms: 2% Net 20

Shipping destination: Free on Board (FOB) Destination

Freight: Prepaid and included

Palletization:

Category

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I

Contract No. 02702 **Daniels Electronics**

SERVICING: Indicate below the names and addresses of sales representatives and specific territories covered. Proposer's ability to service state agencies including local sales representation may be a factor in the award. Contractor must provide immediate attention to problem areas as they arise regardless of location. Submit an attached letter if necessary.

NAME:	Manon Engineering	NAME:	Aurora Marketing
ADDRESS:	10605 NE 68th St. Suite 201	ADDRESS:	2018 South Pontiac Drive
	Kirkland, WA 98033		Denver, CO 80224
TERRITORY:	AK, WA, OR, ID, HI, MT	TERRITORY:	MT, ID, WY, UT, CO, NM, TX
PHONE:	(425) 827-7449	PHONE:	(303) 758-3051
NAME:	DacoM	NAME:	GVT Marketing
ADDRESS:	6119-A 27th St	ADDRESS:	P.O. Box 390459
	Sacramento, CA 95822		Anza, CA 92539
TERRITORY:	Northern CA, Northern NV	TERRITORY:	Southern CA, Southern NV, AZ
PHONE:	(916) 422-3453	PHONE:	(909) 763-1001
NAME:	Edward J. Gordon	NAME:	
ADDRESS:	2970 Marine Circle P.O. Box 283	ADDRESS:	
	Stillwater, MN 55082		
TERRITORY:	Northern CA, Northern NV	TERRITORY:	
PHONE:	(916) 422-3453	PHONE:	

FACTORY AUTHORIZED SERVICE:

Factory authorized service must be available in the destination area. List your service centers including name and address of each.

FIRM NAME:	Daniels Electronics Ltd.
ADDRESS:	43 Erie Street , Victoria, BC
	V8V 1P8 Canada

Daniels Electronics - Phase I

SERVICE CENTERS

H1a 2.40

Price List United States Valid From:

Daniels Electronics Ltd., 43 Erie Street, Victoria BC, Canada, 1-800-664-4066 Ship to:

Daniels Electronics Ltd. c/o The Victoria Clipper 2701 Alaskan Way, Pier 69 Seattle, WA 98121

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_ENVTEST AMP Environmental Test of Amplifier $205.00
ENVTEST RECEIVER Environmental Test of Receiver $150.00
_ENVTEST TRANSMITTER Environmental Test of Transmitter $150.00
_LABOUR-CONFIG Labour/hr. Required for custom radio design $150.00
_LABOUR-SERVICE Labour/hr. for repairs, maintenance etc. $100.00
AC-3E Crossband E&M Control Card $625.00
AC-CAT-E1 Status Tone Encoder $150.00
AC-CTCSS-DE1 CTCSS Decoder $195.00
AC-CTCSS-E1 CTCSS Encoder $150.00
AC-CTCSS-TDS-1 Module, CTCSS ENC/DEC, Burst, ANI $195.00
AC-CTCSS-TS-64 Module, CTCSS Encoder/Decoder $195.00
AC-DCS1 Digitally Coded Squelch $195.00
AC-DTMF-D2 DTMF Decoder $230.00
AC-MC1 Morse Code ID Generator $400.00
AC-RSI1 CTCSS Rotary Switch Interface - (Common En/Decode Freq.) $530.00
Includes CTCSS module, not available on AC-3M-96 or AC-3S-96
AC-RSI2 CTCSS Rotary Switch Interface - (Different En/Decode Freq.) $710.00
Includes CTCSS module, not available on AC-3M-96 or AC-3S-96
AC-SCS-1RS 16 Channel Frequency Select Rotary Switch, 1 Switch $60.00
AC-SCS-2RS 16 Channel Frequency Select Rotary Switch, 2 Switches $120.00
A-INTERCON-96 Repeater Interconnect, 96 Pin Aux connector and housing for user-built aux. cables $50.00
A-MIC-01 Microphone $140.00
AMP-140-110-D1P AMP,136-144,60-110W,13.8V,Rear $2,195.00
AMP-140-110-D1R AMP,136-144,60-110W,13.8V,Rack $2,195.00
AMP-148-110-D1P AMP,144-152,60-110W,13.8V,Rear $2,195.00
AMP-148-110-D1R AMP,144-152,60-110W,13.8V,Rack $2,195.00
AMP-157-110-D1P AMP,152-162,60-110W,13.8V,Rear $2,195.00
AMP-157-110-D1R AMP,152-162,60-110W,13.8V,Rack $2,195.00
AMP-168-110-D1P AMP,162-174,60-110W,13.8V,Rear $2,195.00
AMP-168-110-D1R AMP,162-174,60-110W,13.8V,Rack $2,195.00
AMP-2/1XX-30-00 VHF 30 Watt Power Amplifier $1,005.00
AMP-2/450-30-00 UHF 30 Watt Power Amplifier $1,005.00
AMP-P10-2AA1-C1 Power Amplifier, 2 W in/100 W out, 30-36 MHz $1,445.00
AMP-P10-2AB1-C1 Power Amplifier, 2 W in/ 100 W out, 36-42 MHz $1,445.00
AMP-P10-2AC1-C1 Power Amplifier, 2 W in/ 100 W out, 42-50 MHz $1,445.00
AMP-P10-2HA1-C3 Power Amplifier, 2 W in/ 100-150 W out, 450-470 MHz $2,045.00
AMP-P25-2AA1-C1 AMP,30-36MHz,2.5W I/P,250W O/P $2,950.00
AMP-P25-2AB1-C1 AMP,36-42MHz,2.5W I/P,250W O/P $2,950.00
AMP-P25-2AC1-C1 AMP,42-50MHz,2.5W I/P,250W O/P $2,950.00
AMP-P25-2EA1-C1 AMP,152-162MHz,5W I/P,250W O/P $2,950.00
Phone: 1-800-664-4066
Fax: 1-877-750-0004
web: www.danelec.com
email: sales@danelec.com
Price Code:
Version:
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Page #: 3
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: October 10, 2006

Item Number Schedule of Supplies / Services Price

AMP-P25-5EA1-C1 AMP,152-162MHz,5W I/P,250W O/P \$2,950.00

AMP-P9-2K1-C1 Power Amplifier, 2 W in/80 W out, 806-870 MHz \$2,375.00

A-PK-GLOBALSTAR Globalstar System Interface Kit \$1,300.00

Includes: telephone interconnect, mounting bracket and connectors

A-PK-IRIDIUM Interface Kit for Iridium System \$4,045.00

Includes: telephone interconnect, extended transportable case and connectors.

A-PK-RX3N214 12.5 KHz modification kit for conversion to narrowband Rx \$210.00

A-PNL-AUX96-3 96 Position Rear Terminal Block, mounted on back panel \$250.00

A-PNL-DUP-02 Tray Panel for Comprod Duplexer \$40.00

A-PNL-SP-01 Speaker Panel, 19" Rack mount, 3 RU height \$245.00

APP-FIRM01-W-XX Firmware (P25 Digital Upgrade), MT-4E Receiver, Ver XX \$1,850.00

APP-FIRM02-W-XX Firmware (P25 Digital Upgrade), MT-4E Transmitter, Ver XX \$2,400.00

APP-RSS03-WC-XX Radio Service Software, RSS4E \$290.00

APP-UIC-4-01 Software, UIC-4 \$0.00

APP-UIC-4-02 Software, UIC-4, Fixed Station Interface \$1,500.00

A-TK-01 Alignment/Maintenance Kit for MT-3 \$55.00

A-TK-04 Alignment/Maintenance Kit, MT-4 \$95.00

CBL223-NXXNXXXX RG223 RF Cable (Type N Bulkhead) \$85.00

CBL223-XPOXPOXX RG223 RF Cable (Type N OR BNC Connector) \$60.00

CBL223-XR0XR0XX RG223 Cable (Type N or BNC Connector) Right angle connection \$70.00

CBLAUX-96-1.22 Auxilliary Control Cable, 1.22 M (4 ft.) \$175.00

CBLC40-01025100 Interconnect Cable, CI-DSP-223, DB-25 to bare wires (For conntection to

A-PNL-AUX96-3)

\$70.00

CBLC41-43525110 Interconnect Cable, CI-DSP-223, DB-25 to 96 pin connector (For connection directly

to subrack)

\$115.00

CBLC44-20704305 Cable/USB2.0,A-B(mini)M-M,10ft \$25.00

CBLC46-12506XXX Cable, RJ45 Plug-Plug, 8 position \$25.00

CBLC46-KEYLDR-0 Encryption Key Loader Cable \$105.00

CBLPXX-XXXXXXXX Power Cable for Transportable Case \$80.00

CI-BC-4E-00 Control, P25 Base, Local/REM,E&M \$1,000.00

CI-C-2002HS Radio Control Console, 2 Line \$1,485.00

CI-DSP-223 Tone Remote Adapter \$825.00

Includes: interconnect & programming cables

CI-IP-223 VOIP Remote Adapter \$2,100.00

Includes: interconnect & programming cables

CI-MODEL66 Controller, Transmitter \$2,142.00

CI-PM-3-00 Digital Paging Interface Card \$1,240.00

CI-RC-4L-00 Digital Crossband Low Current Control Card \$625.00

CI-RC-4L-10 Digital Low Current Control Card, NIFC version \$1,215.00

CI-RC-4M-00 Controller/P25 Repeater Master \$2,500.00

CI-RC-4M-01 Controller/P25 Rptr, Package includes E&M Expansion Board and Analog Tone

Board

\$3,250.00

Phone: 1-800-664-4066 Fax: 1-877-750-0004

web: www.danelec.com

email: sales@danelec.com

Price Code: Version:

H1a

2.40

Price List United States Valid From:

Page #: 4

: October 10, 2006

Item Number Schedule of Supplies / Services Price

CI-RC-4M-EM/EXP Expansion/E&M Board, CI-RC-4M \$500.00

CI-RC-4M-TONE Analog Tone Board, CI-RC-4M \$500.00

CI-RSWITCH-0 Redundant Switch \$1,625.00

CP-SC-3 Synthesizer Channel Programmer \$920.00

DUP-132-150JHPN Duplexer, 132-150MHz,100W,2 MHZ \$2,240.00

DUP-136-174EKPB Duplexer, 136-174MHZ, 50W, 4.5MHZ \$650.00

DUP-136-174TDHN Duplexer, 136-174M,350W,500KHZ \$1,705.00

DUP-136-174TDRN Duplexer, 136-174M,350W,500KHZ \$2,350.00

DUP-144-174JHPN Duplexer, 144-174MHz,100W,2 MHZ \$2,240.00

DUP-350-512EMLB Duplexer, 350-512MHZ,50W,5 MHZ \$600.00

DUP-406-512LMLN Duplexer,406-512MHZ,125W,5 MHZ \$1,340.00

DUP-406-512LMRN Duplexer,406-512MHZ,125W,5 MHZ \$1,745.00

DUP-806-896EYCB Duplexer,806-896MHZ,50W,45 MHZ \$460.00

DUP-896-960EUPB Duplexer,896-960MHZ,50W,24 MHZ \$460.00

EC-48RD 48 Pin Extender, Direct connect for use with RF modules or system regulator \$190.00

EC-48RK-1.22 48 Pin Extender Kit W/ Cable \$375.00

For RF modules and system regulator

EC-96D1 96 Pin Extender Card \$115.00

Direct connect for use with 96 pin audio control cards

EC-96K-1.22 96 Pin Extender Kit W/ Cable \$520.00

ENCRYPT-MT4E-XX Encryption for MT-4E RX/TX \$1,740.00

ES-1-B20-00 Steel freestanding 19" Rack Cabinet, open front and back, 20 RU height \$560.00

ES-1-B20-D0 Flush mount rack door, with lock for use with 20 RU height cabinet \$190.00

ES-1-B28-00 Steel freestanding 19" Rack Cabinet, open front and back, 28 RU height \$1,380.00

ES-1-B28-D0 Flush mount rack door, with lock for use with 28 RU height cabinet \$420.00

ES-4-D90-01 19" Open Frame Relay Rack, 90" Height \$1,350.00

ET-1-A06-00 19" PolyethyleneTransportable Case \$3,245.00

Holds 2 subracks, 6 RU height, shock mounted subrack, water tight lid

ET-1-A09-00 Transportable Case for 9U Rack \$3,575.00

ET-3-03-00 Orange 19 "Transportable Case \$2,500.00

Includes: 2 RF connectors, AC and DC (6 ft. power cables). RF cables sold separately.

ET-3-03-05 Black 19" Transportable Case. Aluminum \$2,500.00

Includes: 2 RF connectors, AC and DC (6 ft. power cables). RF cables sold

separately.

ET-4-A09-00 Polyethylene Briefcase \$835.00

ET-4-A09-01 Briefcase Package incl. Power Module & Accessory Box \$1,900.00

IM08-MT-4E-TXRX Manual, MT-4E Recevier & Transmitter \$25.00

IM10-VR3H040 VR-3H040 Synthesized Rx Manual \$25.00

IM12-001 VR-3A130, AM Rx Manual \$25.00

IM20-VT3H040 VT-3H040 Synthesized Tx Manual \$25.00

IM22-001 VT-3A130, AM Synthesized Tx Manual \$25.00

Phone: 1-800-664-4066 Fax: 1-877-750-0004 web: www.danelec.com email: sales@danelec.com

Price Code: Version:

H1a 2.40

Price List United States Valid From:

Page #: 5

: October 10, 2006

Item Number Schedule of Supplies / Services Price

IM31-SM3 System Regulator Manual \$25.00

IM35-MB84RX Multil Rx Subrack Manual \$25.00

IM35-MB84TX Multi Tx/Amp Subrack Manual \$25.00

IM35-SR3MB84 Subrack Manual \$25.00

IM42-AC3 Audio Control Manual \$25.00

IM51-CPSC3 Synth Channel Programmer Manual \$25.00

IM55-002 Manual, P25 Base Control, CI-BC-4E \$25.00

IM55-003 Redundant Switch Manual \$25.00

IM55-004 Manual, RC-4M Multi link Controller \$25.00

IM55-005 Manual, UIC-4, Universal Interface Card \$25.00

IM55-CIPM3 CI-PM-3 Paging Modulator Manual \$25.00

IM55-CIRC4L P25 Repeater Controller Manual \$25.00

IM55-GLOBALSTAR Manual, GLOBALSTAR System \$25.00

IM71-001 AMP-2/145/155/170/-30 Manual \$25.00

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IM71-002 Manual, AMP-2/450-30 $25.00
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IM81-001 PSA-12A09-P0-00 Power Supply Manual \$25.00

IM81-002 PSA-12A09-PB-00-UB-00 Manual \$25.00

IM81-PSA12X0 PSA-12-40 & PSA-12-60 Manual \$25.00

IM81-PSD2 Manual, PSD-2-xx/15 DC/DC cnvtr \$25.00

IM85-001 Manual, Power Supply for ET-4 \$25.00

IM85-002 Manual, ET-4-A09-0X Deployment \$25.00

IM87-BSSP Speaker Panel Base Station Manual \$25.00

IM87-NCONV Narrowband Conversion Manual \$25.00

IMXX-XXXXXX Radio Module Instruction Manual \$25.00

PSA-12-09-RB-20 Power Supply, 12VDC/9A \$1,300.00

PSA-12-40-RB-00 Power Supply, 12VDC-40A,Rack Mt \$1,100.00

PSA-12-60-RB-00 Power Supply,12VDC-60A,Rack Mt \$1,325.00

PSA-12A09-PB-00 Power Supply, 12VDC, W/Battery backup \$500.00

PSA-12A09-UB-00 Power Supply, 12VDC, W/Battery backup \$445.00

PSBENC-002 Enclosure/Battery, Portable, 12 V, 35 AH \$400.00

PSB-P-12V10A502 Battery/Lead Acid, 12V, 10.5 Ah \$55.00

PSD-15-08-P0-80 Converter, DC/DC, 8A, 18-36V \$890.00

PSD-15-08-P0-90 Converter, DC/DC,8A,36-72V I/P \$620.00

PSS-PS-40W-01 Solar System, Portable, 40 W, Black \$1,650.00

SA-VIB-22 Anti-Vibration Kit \$80.00

SM-3-H0-014-00 System Regulator \$605.00

SM-3-H0-014-05 Audio Module \$600.00

SM-3-H0-R1N-00 System Regulator, 1 Antenna Relay \$1,105.00

SM-3-H0-R2N-00 System Regulator, 2 Antenna Relays \$1,605.00

SR-39-1 Subrack \$780.00 Phone: 1-800-664-4066 Fax: 1-877-750-0004 web: www.danelec.com

web: www.danelec.com email: sales@danelec.com

Price Code: Version:

H1a

2.40

Price List United States Valid From:

Page #: 6

: October 10, 2006

SR-39-3 Multi Rx Subrack \$720.00

SR-39-4 Multi Tx/Amp Subrack \$1,020.00

TRAINING-01 2-Day Training - Daniels Facility - per Student \$450.00

Price per student which includes manuals and course material.

TRAINING-02 2-Day Training - Customer's Facility - 8 Students \$5,500.00

Includes manuals and course material for up 8 students. Held at appropriate training

facility provided by customer (Within the US, excluding Territories)

TRAINING-03 2-Day Training - Customer's Facility - Additional Student \$350.00 Each additional student over 8.

TRAINING-04 3-Day Training - Daniels Facility - per Student \$550.00

Includes manuals and course material.

TRAINING-05 3-Day Training - Customer's Facility - 8 Students \$6,900.00

Includes manuals and course material for up to 8 students. Held at an appropriate training facility provided by the customer. (Within the US, excluding Territories)

TRAINING-06 3-Day Training - Customer's Facility - Additional Student \$400.00

Price per each additional student.

UIC-4-00 Universal Interface Cntrl, 7HP \$1,500.00

UR-4E420-00-000 RX, MT-4E Analog Class B, 406-430 MHz \$1,850.00

UR-4E420-A0-000 RX, MT-4E Analog Class A, 406-430 MHz \$2,050.00

UR-4E460-00-000 RX, MT-4E Analog Class B, 450-470 MHz \$1,850.00

UR-4E460-A0-000 RX, MT-4E Analog Class A 450-470 MHz \$2,050.00

UR-4E500-A0-000 RX, MT-4E Analog Class A, 470-512 MHz \$2,050.00

UT-4E450-00-800 TX, MT-4E Analog Class A, 406-470 MHz \$1,485.00

UT-4E500-00-800 TX, MT-4E Analog Class A 470-512 MHz \$1,485.00

VR-3A130-SYF210 RX, MT-3/AM, 118-137 MHz \$1,705.00 VR-3AXXX-XXXXX RX, MT-3/AM \$1,705.00

VR-3H035-SWA200 RX, MT-3, VHF(030-039MHz) Enhanced \$1,800.00

VR-3H045-SWA200 RX, MT-3, VHF(038-050MHz) Enhanced \$1,800.00 VR-4E150-00-000 RX, MT-4E Analog Class B, 136-174 MHz \$1,600.00 VR-4E150-A0-000 RX, MT-4E Analog Class A 136-174 MHz \$1,800.00 VT-3A130-SYF410 TX,MT-3/AM,118-137MHz,3W \$1,790.00 VT-3AXXX-XXXXXX TX, MT-3 AM \$1,790.00 VT-3H035-SXA300 TX, MT-3, VHF(030-039), 3W \$1,600.00 VT-3H045-SXA300 TX, MT-3, VHF(038-050),3W \$1,600.00 VT-4E150-00-800 TX, MT-4E Analog Class A, 136-174 \$1,485.00

Contract No. 02702 **EF Johnson Company**

CONTRACTOR INFORMATION

Contractor: EF Johnson Company

Contact: Mark W. Morgan Alternate Bob Bushey

Contact:

Phone: 602-834-0720 425-430-2919 Fax: 602-834-0717 425-430-2916

Email: mmorgan@efjohnson.com bbushey@efjohnson.com

Internet address: www.efjohnson.com

Web catalog address:

Federal ID No.: 41-0436849 Supplier No.: W1270

Total Contract worth: \$500,000,000.00

Payment address: EFJohnson Order placement EFJohnson

PO Box 403312 address: Attn: Order Admin Atlanta, GA 30384-3312 1440 Corporate Drive

Irving, TX 75038-2401

Customer Service: Ron Thompson Telephone: 972-819-2344 Fax: 972-819-2307

Ordering procedures:

Credit card acceptance: None

Minimum orders:

Currently Installed Systems, 20% off Manufacturer List Price

upgrade equipment, radio equipment and accessories

Support Services \$125 per hour Installation Services \$125 per hour Repair Services \$125 per hour

Delivery time: Negotiated days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A
Category Category 1

Equipment Line items

Link to bid Specifications

Awarded Phase I & II

EF Johnson Company – Phase II

EF JOHNSON Price Sheet

ITEM	Mfg Name	Brand/Model#	Total Price
Portable Analog			
High VHF 136-174 Quality Category A	EF Johnson	5212-610-10	\$1,455.30
High VHF 136-174 Quality Category B	EF Johnson	5212-610-10-81	\$1,392.00
UHF 450-470 Quality Category A	EF Johnson	52(2or4)2-410- 10	\$1,443.75
UHF 450-470 Quality Category B	EF Johnson	52(2or4)2-410- 10-81	\$1,380.00
UHF 450-470 Category D	EF Johnson	52(2or4)2-410- 10-80	\$1,300.00
UHF 806-870 Quality Category A	EF Johnson	527B-810-10	\$1,443.75
UHF 806-870 Quality Category B	EF Johnson	527B-810-10-81	\$1,380.00
UHF 806-870 Quality Category C	EF Johnson	527B-810-10-80	\$1,300.00
UHF 806-870 Quality Category D	EF Johnson	527A-810-10	\$1,140.00
Desktop Analog			
UHF 806-870 Quality Category C	EF Johnson	Discontinued	N/A
UHF 806-870 Quality Category D	EF Johnson	Discontinued	N/A
Mobile Analog			
High VHF 136-174 Quality Category B	EF Johnson	5417-11-10-81	\$1,744.00
High VHF 136-174 Category C	EF Johnson	5417-11-10-80	\$1,664.00
High VHF 136-174 Category D	EF Johnson	5417-11-10-80	\$1,664.00
UHF 806-870 Quality Category C	EF Johnson	Discontinued	N/A
UHF 806-870 Quality Category D	EF Johnson	Discontinued	N/A
Portable Digital			
High VHF 136-174 Quality Category A	EF Johnson	5212-610-20-00	\$1,724.80
High VHF 136-174 Quality Category B	EF Johnson	5212-610-20-81	\$1,672.00
High VHF 136-174 Quality Category C	EF Johnson	5212-610-20-80	\$1,592.00
High VHF 136-174 Category D	EF Johnson	5212-610-20-80	\$1,592.00
UHF 450-470 Quality Category A	EF Johnson	52(2or4)2-410- 20-00	\$1,713.25
UHF 450-470 Quality Category B	EF Johnson	52(2or4)2-410- 20-81	\$1,660.00
UHF 450-470 Quality Category C	EF Johnson	52(2or4)2-410- 20-80	\$1,580.00
UHF 450-470 Quality Category D	EF Johnson	52(2or4)2-410- 20-80	\$1,580.00
UHF 806-870 Quality Category A	EF Johnson	527B-810-20-00	\$1,713.25
UHF 806-870 Quality Category B	EF Johnson	527B-810-20-81	\$1,660.00
UHF 806-870 Quality Category C	EF Johnson	527B-810-20-80	\$1,580.00
UHF 806-870 Cateogry D	EF Johnson	527A-810-20	\$1,420.00
Desktop Digital			
High VHF 136-174 Quality Category D	EF Johnson	5417-11-20-80	\$2,130.00
UHF 806-870 Quality Category C	EF Johnson	5477-11-20-81	\$2,146.00
UHF 806-870 Quality Category D	EF Johnson	5337-11-20-80	\$2,130.00
Mobile Digital			

EF Johnson Company – Phase II

EF Jonnson Company – Phase II				
ITEM	Mfg Name	Brand/Model#	Total Price	
High VHF 136-174 Quality Category C	EF Johnson	5417-11-20-81	\$1,846.90	
High VHF 136-174 Quality Category D	EF Johnson	5417-11-20-80	\$1,822.50	
UHF 806-870 Quality Category C	EF Johnson	5477-11-20-81	\$1,846.90	
UHF 806-870 Quality Category D	EF Johnson	5477-11-20-80	\$1,822.50	
Mobile Trunked Digital				
High VHF 136-174 Quality Category C	EF Johnson	5417-11-25-81	\$2,066.25	
High VHF 136-174 Quality Category D	EF Johnson	5417-11-25-80	\$1,991.25	
UHF 806-870 Quality Category C	EF Johnson	5477-11-25-81	\$2,066.25	
UHF 806-870 Quality Category D	EF Johnson	5477-11-25-80	\$1,991.25	
Portable Trunked Digital				
High VHF 136-174 Quality Category B	EF Johnson	5212-610-25-81	\$1,689.95	
High VHF 136-174 Quality Category C	EF Johnson	5212-610-25-80	\$1,661.25	
High VHF 136-174 Quality Category D	ED Johnson	5212-610-25-80	\$1,661.25	
UHF 450-470 Quality Category A	EF Johnson	52(2or4)2-410- 25-00	\$1,690.50	
UHF 450-470 Quality Category B	EF Johnson	52(2or4)2-410- 25-81	\$1,679.00	
UHF 450-470 Quality Category C	EF Johnson	52(2or4)2-410- 25-80	\$1,650.00	
UHF 450-470 Quality Category D	EF Johnson	52(2or4)2-410- 25-80	\$1,650.00	
UHF 806-870 Quality Category B	EF Johnson	527B-810-25-81	\$1,679.00	
UHF 806-870 Quality Category C	EF Johnson	527B-810-25-80	\$1,650.00	
UHF 806-870 Quality Category D	EF Johnson	527A-810-25	\$1,500.00	

Discount percentage represented by bid prices is	20-35% off of List
Delivery - expressed in days after Receipt of Order	Varies by Order
Warranty Period - in excess of that required by the specifications (in	0 days
days)	·
% Tax required	Varies by State
Components added to the above models to meet required	None
specifications:	

EF Johnson Company – Phase II

Portable Analog

High VHF 136-174 Quality Category A

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-66	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		
Price FOB Destination freight prepaid & included in price		\$1,455.30
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

High VHF 136-174 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	48	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-65	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		
	-	
Price FOB Destination freight prepaid & included in price		\$1,392.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 450-470 Quality Category A

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-65	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75
Spurious and Image Rejection, dB	-73	-75
Intermodulation, dB	-73	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	
Price FOB Destination freight prepaid & included in price		\$1,443.75
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 450-470 Quality Category B

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	SI ECH ICITION	SI Len Ierrioiv
Number of Channels/Modes/Personalities	40	256
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-65	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-73/-63	-75
Spurious and Image Rejection, dB	-73	-75
Intermodulation, dB	-73	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	
Price FOB Destination freight prepaid & included in price		\$1,380.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 450-470 Quality Category D

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	STECHTOITION	STECHTOTTOTT
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	
Price FOB Destination freight prepaid & included in price		\$1,300.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
included	Position Rotary Channel/Mode Select Switch Option	n/c
included	Low Battery Alert Tone Option	n/c
Included	Alphanumeric Display Option	n/c
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$45.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
	Flashing EEPROM	available
	Provision for Field Software Upgrade	available
06	Secure Encryption Option	\$440.00
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
included	Emergency Button/Switch Option	
included	Programmable Button/Switch Option	
included	Push-to-talk ID Transmission Option	
See Attached	See Price Pages attached form complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 806-870 Quality Category A

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	SI Len ICATION	SI Len lention
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 1.5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable (Low/High)	1/3 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-48	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-72/-63	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-72	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	
Price FOB Destination freight prepaid & included in price		\$1,443.75
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 806-870 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	48	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 1.5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable	1/3 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-48	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-72/-63	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-72	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	3	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		
Price FOB Destination freight prepaid & included in price		\$1,380.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
250-05100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 806-870 Quality Category C

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	SI Zen Ierriter	BI Zell TellTlott
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable (Low/High)	1/3 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-63	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ		
Price FOB Destination freight prepaid & included in price		\$1,300.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
n/a	Alphanumeric Display Option	n/a
n/a	Dual Tone Multi Frequency encoder and Key Pad Option	n/a
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
included	Emergency Button/Switch Option	
included	Programmable Button/Switch Option	
included	Push-to-talk ID Transmission Option	
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Analog

UHF 806-870 Quality Category D

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	SI LCH ICATION	SI Len Terrior
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable (Low/High)	1/3 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-63	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	
Price FOB Destination freight prepaid & included in price		\$1,140.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$80.00
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
n/a	Alphanumeric Display Option	n/a
n/a	Dual Tone Multi Frequency encoder and Key Pad Option	n/a
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
	Flashing EEPROM	Available
	Provision for Field Software Upgrade	Available
06	Secure Encryption Option	\$440.00
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
included	Emergency Button/Switch Option	
included	Programmable Button/Switch Option	
included	Push-to-talk ID Transmission Option	
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Desktop Analog

UHF 806-870 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
TRANSMITTER		n/a
RF Power Output, Watts	35	n/a
Radiated Spurious & Harmonic Emission, dB	-60	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
RECEIVER		n/a
Sensitivity, EIA 12 dB Sinad, dBm	-115	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
Price FOB Destination freight prepaid & included in price		n/a
OTHER INFORMATION:		n/a
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

OPTIONAL OPTIONS		
Part Number	Description	Price
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	See Price Pages attached for complete Accessories and Options	n/a

EF Johnson Company – Phase II

Desktop Analog

UHF 806-870 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
TRANSMITTER		n/a
RF Power Output, Watts	15	n/a
Radiated Spurious & Harmonic Emission, dB	-55	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
RECEIVER		n/a
Sensitivity, EIA 12 dB Sinad, dBm	-115	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
Price FOB Destination freight prepaid & included in price		n/a
OTHER INFORMATION:		n/a
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

OPTIONAL OPTIONS		
Part Number	Description	Price
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	See Price Pages attached for complete Accessories and Options	n/a

EF Johnson Company - Phase II

Mobile Analog

High VHF 136-174 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	160	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	50	50
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, watts	5	5
Audio Distortion, % maximum	3	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm		
Price FOB Destination freight prepaid & included in price		\$1,744.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS			
Part Number	Description	Price	
	Flashing EEPROM	available	
	Provision for Field Software Upgrade	available	
05	Secure Encryption Option	\$440.00	
250-4001-202	Desktop/Mobile Conversion Option	\$236.00	
	OPTIONAL OPTIONS		
n/a	Second Programmable Receiver with Separate Speaker		
See Attached	See Price Pages attached for complete Accessories and Options		

EF Johnson Company - Phase II

Mobile Analog

High VHF 136-174 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	40	50
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	
Price FOB Destination freight prepaid & included in price		\$1,664.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS			
Part Number Description		Price	
	Separate Data Connector Option	available	
250-4001-202	Desktop/Mobile Conversion Option	\$236.00	
included	Alphanumeric Display Option	-	
	OPTIONAL OPTIONS		
included	Single Unit Dash Mount Option	-	
n/a	Second Programmable Receiver with Separate Speaker	n/a	
	Flashing EEPROM	available	
	Provision for Field Software Upgrade	available	
05	Secure Encryption Option	\$440.00	
included	Emergency Button/Switch Option	-	
included	Programmable Button/Switch Option	-	
included	Push-to-talk ID Transmission Option	-	
See Attached	See Price Pages attached for complete Accessories and Options		

EF Johnson Company - Phase II

Mobile Analog

High VHF 136-174 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	
Price FOB Destination freight prepaid & included in price		\$1,664.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number Description		Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
	OPTIONAL OPTIONS	
included	Single Unit Dash Mount Option	-
n/a	Second Programmable Receiver with Separate Speaker	n/a
	Flashing EEPROM	available
	Provision for Field Software Upgrade	available
05	Secure Encryption Option	\$440.00
included	Emergency Button/Switch Option	-
included	Programmable Button/Switch Option	-
included	Push-to-talk ID Transmission Option	-
included	Alphanumeric Display Option	-
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Mobile Analog

UHF 806-870 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
TRANSMITTER		n/a
RF Power Output, Watts	35	n/a
Radiated Spurious & Harmonic Emission, dB	-60	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
RECEIVER		n/a
Sensitivity, EIA 12 dB Sinad, dBm	-116	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
Price FOB Destination freight prepaid & included in price		n/a
OTHER INFORMATION:		n/a
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

	REQUIRED OPTIONS	
Part Number	Description	Price
n/a	Separate Data Connector Option	n/a
n/a	Desktop/Mobile Conversion Option	n/a
n/a	Alphanumeric Display Option	n/a
	OPTIONAL OPTIONS	
n/a	Single Unit Dash Mount Option	n/a
n/a	Second Programmable Receiver with Separate Speaker	n/a
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	Emergency Button/Switch Option	n/a
n/a	Programmable Button/Switch Option	n/a
n/a	Push-to-talk ID Transmission Option	n/a
n/a	See Price Pages attached for complete Accessories and Options	n/a

EF Johnson Company - Phase II

Mobile Analog

UHF 806-870 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
	SIECHICATION	SIECHTEATION
GENERAL		
Number of Channels/Modes/Personalities	16	n/a
Operational Bandwidth/Maximum Frequency Separation, MHz	64	n/a
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	n/a
Channel Spacing, kHz	12.5 / 25	n/a
RF Input/Output Impedance, Ohms	50	n/a
TRANSMITTER		n/a
RF Power Output, Watts	15	n/a
Radiated Spurious & Harmonic Emission, dB	-55	n/a
FM Noise, dB	-35	n/a
Audio Distortion, % maximum	5	n/a
Audio Response (per TIA/EIA 603)	+1, -3	n/a
RECEIVER		n/a
Sensitivity, EIA 12 dB Sinad, dBm	-115	n/a
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	n/a
Spurious and Image Rejection, dB	-70	n/a
Intermodulation, dB	-68	n/a
Speaker Audio Output, watts	3	n/a
Audio Distortion, % maximum	5	n/a
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-	n/a
Price FOB Destination freight prepaid & included in price		n/a
OTHER INFORMATION:		n/a
Prices are based on Manufacturer's price list entitled:		n/a
Prices are based on price list quoted above dated:		n/a

	REQUIRED OPTIONS	
Part Number	Description	Price
n /a	Separate Data Connector Option	n/a
n/a	Desktop/Mobile Conversion Option	n/a
	OPTIONAL OPTIONS	
n/a	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
n/a	Flashing EEPROM	n/a
n/a	Provision for Field Software Upgrade	n/a
n/a	Secure Encryption Option	n/a
n/a	Emergency Button/Switch Option	n/a
n/a	Programmable Button/Switch Option	n/a
n/a	Push-to-talk ID Transmission Option	n/a
n/a	Alphanumeric Display Option	n/a
n/a	See Price Pages attached for complete Accessories and Options	n/a

EF Johnson Company - Phase II

Portable Digital

High VHF 136-174 Quality Category A

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-67	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,724.80
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.80
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Digital

High VHF 136-174 Quality Category B

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	STEERITE TOTAL	DI BOIL TOTAL
Number of Channels/Modes/Personalities	48	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-67	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,672.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Digital

High VHF 136-174 Quality Category C

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,592.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Digital

High VHF 136-174 Quality Category D

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-57	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-60	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,592.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	-
included	Position Rotary Channel/Mode Select Switch Option	-
included	Low Battery Alert Tone Option	-
included	Programmable Button Option	-
included	Push-to-talk ID Transmission Option	-
included	Alphanumeric Display Option	-
included	Adaptive Transmitter Power Control Option	-
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Digital

UHF 450-470 Quality Category A

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-68	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,713.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
5890015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Digital

UHF 450-470 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	40	256
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-68	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,660.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ*	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Digital

UHF 450-470 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,580.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-0057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Digital

UHF 450-470 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,580.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Digital

UHF 806-870 Quality Category A

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	SILCHICATION	SILCHICATION
Number of Channels/Modes/Personalities	160	512
		_
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM		± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable	1/3 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-74	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,713.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Digital

UHF 806-870 Quality Category B

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	48	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	1.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable (Low/High)	1/3 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-63	-75/-63
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-74	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,660.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ*	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Digital

UHF 806-870 Quality Category C

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable (Low/High)	1/3 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,580.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Digital

UHF 806-870 Quality Category D

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 1.5
Channel Spacing, kHz	12.5/25	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/3 selectable (Low/High)	1/3 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-60/-55	-75
Spurious and Image Rejection, dB	-65	-75
Intermodulation, dB	-65	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,420.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	-
included	Position Rotary Channel/Mode Select Switch Option	-
included	Low Battery Alert Tone Option	-
included	Programmable Button Option	-
included	Push-to-talk ID Transmission Option	-
n/a	Alphanumeric Display Option	-
included	Adaptive Transmitter Power Control Option	-
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company – Phase II

Desktop Digital

High VHF 136-174 Quality Category D

	<u> </u>	
	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-65	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$2,130.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

OPTIONAL OPTIONS		
Part Number	Description	Price
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Desktop Digital

UHF 806-870 Quality Category C

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	35	35
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$2,146.20
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	OPTIONAL OPTIONS	
Part Number	Description	Price
See Attached See Price Pages attached for complete Accessories and Options		

EF Johnson Company - Phase II

Desktop Digital

UHF 806-870 Quality Category D

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	15	35
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-65/-60	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-65	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
Price FOB Destination freight prepaid & included in price		\$2,130.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company – Phase II

Mobile Digital

High VHF 136-174 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	40	50
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,846.90
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
	OPTIONAL OPTIONS	
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company – Phase II

Mobile Digital

High VHF 136-174 Quality Category D

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL	SILCHICATION	SILCHICATION
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,822.50
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
OPTIONAL OPTIONS		
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company – Phase II

Mobile Digital

UHF 806-870 Quality Category C

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	35	35
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
Price FOB Destination freight prepaid & included in price		\$1,846.90
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
OPTIONAL OPTIONS		
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company – Phase II

Mobile Digital

UHF 806-870 Quality Category D

	<u> </u>	
	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
TRANSMITTER		
RF Power Output, Watts	15	35
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75/-63
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
Price FOB Destination freight prepaid & included in price		\$1,822.50
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
OPTIONAL OPTIONS		
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Mobile Trunked Digital

High VHF 136-174 Quality Category C

	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	40	50
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$2,066.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS			
Part Number	Description	Price	
	Separate Data Connector Option	available	
250-4001-202	Desktop/Mobile Conversion Option	\$236.00	
included	Emergency Button Option		
included	Programmable Button Option		
included	Push-to-talk ID Transmission Option		
included	Alphanumeric display Option		
	OPTIONAL OPTIONS		
Part Number	Description	Price	
included	Single Unit Dash Mount Option		
n/a	Second Programmable Receiver with Separate Speaker	n/a	

EF Johnson Company - Phase II

Mobile Trunked Digital

High VHF 136-174 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	2.0
Number of Channels/Modes/Personalities	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	25	50
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,991.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
n/a	Separate Data Connector Option	n/a
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
	OPTIONAL OPTIONS	
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Mobile Trunked Digital

UHF 806-870 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	32	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	35	35
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-73
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
Price FOB Destination freight prepaid & included in price		\$2,066.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
n/a	Separate Data Connector Option	n/a
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
	OPTIONAL OPTIONS	
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Mobile Trunked Digital

UHF 806-870 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	16	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	2.0
Channel Spacing, kHz	12.5 / 25	12.5 / 25 / 30
RF Input/Output Impedance, Ohms	50	50
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	15	35
Radiated Spurious & Harmonic Emission, dB	-55	-75
FM Noise, dB	-35	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-115	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-68	-73
Speaker Audio Output, watts	3	5
Audio Distortion, % maximum	5	3
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-115	-119
Price FOB Destination freight prepaid & included in price		\$1,991.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
	Separate Data Connector Option	available
250-4001-202	Desktop/Mobile Conversion Option	\$236.00
included	Emergency Button Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric display Option	
	OPTIONAL OPTIONS	
included	Single Unit Dash Mount Option	
n/a	Second Programmable Receiver with Separate Speaker	n/a
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

High VHF 136-174 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	48	256
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-70	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,689.95
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ*	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

High VHF 136-174 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	3	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,661.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
	OPTIONAL OPTIONS	
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

High VHF 136-174 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	38	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.0
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/5 selectable	1/5 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-57	-75
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-60	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,661.25
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
	OPTIONAL OPTIONS	
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

UHF 450-470 Quality Category A

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	160	512
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,690.50
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ*	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
Part Number	Description	Price
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

UHF 450-470 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	40	256
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
-	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-70	-75
FM Noise, dB	-45	-45
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-68	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-75	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,679.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
OPTIONAL OPTIONS		
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages attached for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

UHF 450-470 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 2.0
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/4 selectable	1/4 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-43	-45
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,650.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Trunked Digital

Portable Trunked Di	igital		
UHF 450-470 Quality Category D			
	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION	
GENERAL			
Number of Channels/Modes/Personalities	2	48	
Operational Bandwidth/Maximum Frequency Separation, MHz	20	Full Bandsplit	
Frequency Stability (-30 °C to + 60 °C), PPM	5	± 2.0	
Channel Spacing, kHz	12.5/20/25	12.5 / 25 / 30	
APCO P-25 TRUNKED STANDARDS			
TRANSMITTER			
RF Power Output, Watts	1/4 selectable	1/4 selectable	
	(Low/High)	(Low/High)	
Radiated Spurious & Harmonic Emission, dB	-60	-75 45	
FM Noise, dB	-40	-45	
Audio Distortion, % maximum	5	2	
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3	
RECEIVER			
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119	
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75	
Spurious and Image Rejection, dB	-70	-75	
Intermodulation, dB	-70	-75	
Speaker Audio Output, milliwatts	350	500	
Audio Distortion, % maximum	5	2	
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-116	-119	
Price FOB Destination freight prepaid & included in price		\$1,650.00	
OTHER INFORMATION:			
Prices are based on Manufacturer's price list entitled:		EFJohnson	
Prices are based on price list quoted above dated:		02/01/2007	

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-235	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Trunked Digital

UHF 806-870 Quality Category B

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	48	256
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	1.5	± 2.0
Channel Spacing, kHz	12.5/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/3 selectable	1/3 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	2	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-119	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-75/-63	-75
Spurious and Image Rejection, dB	-75	-75
Intermodulation, dB	-74	-75
Speaker Audio Output, milliwatts	500	500
Audio Distortion, % maximum	2	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-119	-119
Price FOB Destination freight prepaid & included in price		\$1,679.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

REQUIRED OPTIONS		
Part Number	Description	Price
250-5100-235	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ*	\$80.00
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
n/a	RF Power Amplifiers Option	n/a
589-0015-057	External Speaker/Microphone Option	\$97.50
n/a	Paging Decoder Option	n/a
	OPTIONAL OPTIONS	
585-5100-260	Vehicular Charger/Console Option	\$96.00
See Attached	See Price Pages for complete Accessories and Options	

EF Johnson Company - Phase II

Portable Trunked Digital

UHF 806-870 Quality Category C

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 2.0
Channel Spacing, kHz	12.5/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/3 selectable	1/3 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-65	-75
Spurious and Image Rejection, dB	-70	-75
Intermodulation, dB	-70	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,650.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS	
Part Number	Description	Price
250-5100-535	Battery Charger/Dual Power Option	\$80.00
included	Emergency Button Option	
included	Position Rotary Channel/Mode Select Switch Option	
included	Low Battery Alert Tone Option	
included	Programmable Button Option	
included	Push-to-talk ID Transmission Option	
included	Alphanumeric Display Option	
included	Adaptive Transmitter Power Control Option	
52X(3orC)	Dual Tone Multi Frequency encoder and Key Pad Option	\$160.55
585-5100-122	Leather Carrying Case Option	\$52.50
589-0015-057	External Speaker/Microphone Option	\$97.50
OPTIONAL OPTIONS		
n/a	RF Power Amplifiers Option	n/a
n/a	Paging Decoder Option	n/a
585-5100-260	Vehicular Charger/Console Option	\$96.00

EF Johnson Company - Phase II

Portable Trunked Digital

UHF 806-870 Quality Category D

	STANDARD	BIDDER'S
	SPECIFICATION	SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	2	48
Operational Bandwidth/Maximum Frequency Separation, MHz	64	Full Bandsplit
Frequency Stability (-30 °C to + 60 °C), PPM	2.5	± 2.0
Channel Spacing, kHz	12.5/25	12.5 / 25
APCO P-25 TRUNKED STANDARDS		
TRANSMITTER		
RF Power Output, Watts	1/3 selectable	1/3 selectable
	(Low/High)	(Low/High)
Radiated Spurious & Harmonic Emission, dB	-45	-75
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	2
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-60/-55	-75
Spurious and Image Rejection, dB	-65	-75
Intermodulation, dB	-65	-75
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	2
Static BER sensitivity @ 5% referenced @ 12.5 KHZ, dBm	-116	-119
Price FOB Destination freight prepaid & included in price		\$1,500.00
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		EFJohnson
Prices are based on price list quoted above dated:		02/01/2007

Contract No. 02702 EF Johnson Company – Phase II

	REQUIRED OPTIONS				
Part Number	Description	Price			
250-5100-235	Battery Charger/Dual Power Option	\$80.00			
included	Emergency Button Option				
included	Position Rotary Channel/Mode Select Switch Option				
included	Low Battery Alert Tone Option				
included	Programmable Button Option				
included	Push-to-talk ID Transmission Option				
n/a	Alphanumeric Display Option				
included	Adaptive Transmitter Power Control Option				
n/a	Dual Tone Multi Frequency encoder and Key Pad Option				
585-5100-122	Leather Carrying Case Option	\$52.50			
589-0015-057	External Speaker/Microphone Option	\$97.50			
	OPTIONAL OPTIONS				
n/a	RF Power Amplifiers Option	n/a			
n/a	Paging Decoder Option	n/a			
585-5100-260	Vehicular Charger/Console Option	\$96.00			

Contract No. 02702 **Eltek**

Contractor: EltekValere, Inc.

Contact: Charles Bailey, Controller Alternate Contact: Susanne Beck

1303 East Arapaho Road

Richardson, TX 75081

Phone: (469) 330-3234 Purchasing (562) 987-5001 direct

(562) 881-7746 cell

Fax: (815) 459-9118

Email: Charles.bailey@eltekvalere.com suzanne.beck@eltekvalere.com

Internet address: www.eltekenergy.com (800) 435-4872 tech support (24/7)

Product Management John Baker, PH: 815-575-0246; john.baker@eltekvalere.com

Web catalog address:

Federal ID No.: 36-4233439

Supplier No.: W4914

Total Contract worth: \$500,000,000.00

Payment address: Eltek Energy, LLC Order placement Eltek Valere

LBX 619764 address: 115 Erick St

Chicago, IL 60680-6197 Crystal Lake, IL 60014-

4533

Customer Service: Ms. Chris Lima

Telephone: (815) 444-4089

Fax: (800) 526-2524

Ordering procedures:

Credit card acceptance: VISA, MasterCard

Minimum orders:

Delivery time: 30 to 45 days ARO

Payment terms: Net 30

Shipping destination: Free on Board (FOB) destination

Freight: Prepaid and included

Palletization:

Category

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I

Eltek

CONTRACTOR WAREHOUSE Proposer(s) shall indicate below each warehouse location at which material, equipment or supplies will be stored.

ADDRESS:	Eltek Valere	PHONE:	(800) 447-3484
	115 Erick Street	CONTACT:	Robert B. Johnson
	Crystal Lake, IL 60014-4533		Product Manager
	Indicate below the names and addressity to service state agencies including local mmediate attention to problem areas as	al sales representation m	nay be a factor in the award. Contractor
NAME:	Precision Power Mr. Dave Cunningham	NAME:	Mountain Power & Comm. Mr. Mike Rayburn
ADDRESS:	5801 Silverado Way, Suite J12	ADDRESS:	2727 W. Second Ave.
	Anchorage, AK 99518		Denver, CO 80219
TERRITORY:	Alaska	TERRITORY:	Montana, Idaho, Wyoming, Utah, Colorado
PHONE:	(907) 561-7797	PHONE:	(303) 935-5901
Factory authori of each.	THORIZED SERVICE: zed service must be available in the destination of		vice centers including name and address
FIRM NAME:	Eltek Valere		
ADDRESS:	115 Erick Street		

Dave Root (Washington dealer)

Tempest Telecom Solutions 253.223.6636 office (805) 690-3345 fax

Dave Smargon (805) 690-3344 x244 (corp. number) 5383 Hollister Avenue Suite 130 Santa Barbara, CA 93111 www.tempesttelecom.com

Crystal Lake, IL 60014-4533



Contract No. 02702 Eltek – Phase I

	~-
Price	Sheets

_	~ ~ 1	Frice Sheets			
Req.	Comm. Code	Description	Qty	Unit	Percentage off
Item					Mfg List Price
1.		Support Services	Hourly	EA	N/C
		Eltek offers a toll-free 24-hour no charge			
		help line that is available exclusively for			
		customer service assistance. The help line			
		is answered 24 hours a day, seven days a			
		week and 365 days a year.			
2.		Installation Services	Hourly	EA	
2.		Pricing for installation services is quoted	liouity	1271	
		on a job specific basis. Labor rates for			
		installation services are as follows:			
		installation services are as follows.			
		1. Transit rate to and from work site	1	HR	\$50.00
		2. Hourly labor rate	1	HR	\$100.00
		(7:00 AM to 6:00 PM -Monday thru	1	Ш	\$100.00
		Friday)			
		3. Overtime labor rate:	1	HR	\$135.00
			1	пк	\$155.00
		(Applies to labor after 6:00 PM			
		Monday thru Friday and Saturdays.)	1	HD	¢175.00
2		4. Sunday and Holiday Labor Rate:	1 TT 1	HR	\$175.00
3.		Repair Services	Hourly	EA	\$ 100.00
		Note: Certain products being proposed			
		have flat repair rates associated with			
		them. They are as follows:			
		D (1177)			ф 100 00
		Partial Warranty:			\$ 100.00
		- SSD2 Alarm Panel			\$ 200.00
		- TwinPack Plus Rectifier			\$ 155.00
		- SMPS 1000 Rectifier			\$ 175.00
		- AL 175 Controller			
		O · CW			
		Out of Warranty:			4.2 00.00
		- SSD2 Alarm Panel			\$ 300.00
		- TwinPack Plus Rectifier			\$ 450.00
		- SMPS 1000 Rectifier			\$ 225.00
		- AL 175 Controller			\$ 250.00
		- MCU Controller			\$ 130.00
		- Flatpack Rectifier			\$ 250.00
4.		List other Equipment			
		DC Power Systems, Model Flatpack,		EA	25%
		TwinPack Plus, MPSU 4000			

Eltek – Phase I

h		Eltek – Phase I			
Req. Item	Comm. Code	Description	Qty	Unit	Percentage off Mfg List Price
5.		Model -Enersys VRLA - sealed lead acid-20 yr design Warranty-Warranty is 48 months (full) from data of shipment. Additionally, the batteries contain a 16 year prorated warranty for a total of 20 years or 240 months.	1	EA	32.5% discount off Eltek Energy's list price
		(** Note, batteries which shall be shipped from battery manufacturer's warehouse in Sumter, SC 29154, with freight charges prepaid and added to the invoice as a separate line item.)			
6.		anufacture Enersys Model-Enersys VRLA-sealed lead acid-10 yr design Warranty-Warranty is 48 months (full) from date of shipment. Additionally, the batteries contain a six (6) year prorated warranty for a total of 10 years or 120 months. (** Note, batteries which shall be shipped from battery manufacturer's warehouse in North Haven, CT 06473, with freight charges prepaid and added to the invoice as a separate line item.)	1	EA	32.5% discount off list Eltek Energy's list price
7.		Recycle – Disposal Program. Disposal of installed base batteries (Phase 1 products) will be quoted separately and per site. Certification of Distruction shall be included in the cost.			

Contractor: General Dynamics SATCOM Technologies

Contact: Dave Caswell Alternate Contact: Ed Mick

Phone: (814) 238-2700 X406 (903) 381-4131 Fax: (814) 238-6213 (903) 295-1479

Email: <u>Dave.caswell@gdsatcom.com</u> <u>ed.mick@gdsatcom.com</u>

Internet address: http://www.gdsatcom.com/cte.html

Web catalog address:

Federal ID No.: 56-1871899

Supplier No.: W1337

Total Contract worth:

Payment address: General Dynamics SATCOM Order General Dynamics

Technologies, Inc. placement 3750 W. Loop 281 P.O. Box 601704 address: Longview, TX 75604

Charlotte, NC 28260-1704

Customer Service: Ed Mick

Telephone: (903) 381-4131

Fax: (903) 295-1479

Ordering procedures:

Credit card acceptance: VISA, MasterCard, American Express

Minimum orders:

Delivery time: 30 days ARO

Payment terms: Net 30 (based upon approved credit)

Shipping destination: FCA Longview

Freight: Prepaid and included

Palletization:

Category

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I

CONTRACTOR WAREHOUSE Proposer(s) shall indicate below each warehouse location at which material, equipment or supplies will be stored.

ADDRESS:	General Dynamics SATCOM Technologies, Inc.	PHONE:	(903) 381-4131	
	3750 W. Loop 281	CONTACT:	Ed Mick	
	Longview, TX 75604			

SERVICING: Indicate below the names and addresses of sales representatives and specific territories covered. Proposer's ability to service state agencies including local sales representation may be a factor in the award. Contractor must provide immediate attention to problem areas as they arise regardless of location. Submit an attached letter if necessary.

Authorized Sales Representatives

Name	Don Werner	Joe Stephens
Address	Wallace & Wallace	Progress Marketing Group
	2600 California Ave, Ste F	9250 E. Costilla Ave., Suite 440
	Monrovia CA 91016	Englewood CO 80112
Telephone	626-305-8800 / Cell 818-429-9925	800-368-8165
Email	don.werner@prodigy.net	joe@progressmarketing.net
Territory Covered	S. California, S. Nevada, Arizona	E. Montana, Wyoming, E. Idaho, Utah,
		Colorado, New Mexico
Name	Ron Seitz	Ron Serrao
Address	Procomm Marketing	The Sales Group
Address	655 Lewelling Blvd #351	PO Box 729
	San Leandro CA 94579	Volcano, HI 96785-0729
Telephone	510-383-9191	808 985-7545 / Cell 808-987-6313
Email	ProcommNCA@cs.com	ron@thesalesgroup.com
Territory Covered	N. California, N. Nevada	Hawaii
	,	
Name	Kevin Farley	Dana Hanford
Address	The Sales Group	The Sales Group
	311 SW 147 th Place	7641 NE North Street
	Beaverton, OR 97006-7119	Bainbridge Island WA 98110-1057
Telephone	503 638-6923/ Cell 503-805-1967	206-842-9076 Work 206-660-7147 Cell
Email	kevin@thesalesgroup.com	dana@thesalesgroup.com
Territory Covered	Oregon, SW. Washington, SW Idaho	NW Washington, Alaska
N.	D : N'	G GI I
Name	Darwin Niss	George Shoemaker
Address	Mink Marketing	The Sales Group
	22976 Greenland	4807 S Perry Street
T 1 1	Elysian MN 56028	Spokane, WA 99223-6336
Telephone	507-420-8643	(509) 279-0682
Email	dniss@juno.com	george@thesalesgroup.com
Territory Covered	N. Dakota, S Dakota, Minnesota	E Washington, W Montana

Name	Dan Noncek	
Address	Apogee Industries	
	1414 River Terrace	
	McHenry, IL 60051	
Telephone	815- 344-4808	
Email	dan@apogeeindustriesinc.com	
Territory Covered	Wisconsin	

FACTORY AUTHORIZED SERVICE:

Factory authorized service must be available in the destination area. List your service centers including name and address of each.

FIRM NAME:	Motorola/CTDI Test Equipment Service Center	General Dynamics SATCOM Technologies
ADDRESS:	2216 Galvin Drive	Communications Test Equipment
	Elgin, IL 60123	3750 W. Loop 281
		Longview, TX 75604

SERVICE CENTERS

General Dynamics SATCOM Technologies Inc. Communications Test Equipment has one authorized warranty repair facility in the United States. It has been in business for more than 20 years and provides unsurpassed service and rapid turn-around times. In some limited circumstances, General Dynamics will also perform service work at its Longview, Texas manufacturing facility

Primary Contact for all General Dynamics test equipment products on this contract.

Motorola/CTDI Test Equipment Service Center

2216 Galvin Drive Elgin, Illinois 60123 Phone: 800-323-6967 Contact: Ricky Rivera

Factory trained personnel and years of qualifying service:
Barry Hendrix, 20 years
Ricardo Rivera, 17 years
Levi Jackson, 9 years
Larry Huro, 19 years

Barbara Brustowicz, 20 years

Longview, Texas Manufacturing Facility

General Dynamics SATCOM Technologies, Inc.

3750 W. Loop 281 Longview, TX 75604 Phone: (903) 295-1480

Contact: Dan Harrison (for service related issues)

Factory trained personnel and years of qualifying service: Chris Johnson - 3 years

Categroy 8 Equipment: P Test Equipment, Analog and Digital

2% From list price

Req. Item	Part # General Dynamics C4 Systems	Description	Qty	Unit	Unit List Price	Total Price
1.		R2670B Project 25 Radio Test Set	1 +	EA	15,631.00	
1.1.		Options For R2670B:	1 +			
	RLN4497A	Smartnet/Smartzone Testing Option	1 +	EA	5,831.00	
	CM714	P25 Trunking Radio Test Option (All Bands)	1 +	EA	1,519.00	
	N/A	Control Channel Logger (Not Available)				
		LSM Basic (Included with CM714)				
		Smartnet/Smartzone 900MHz				
		(Included in the RLN4497A)				
	CM701	Hardware Module	1 +	EA	2,450.00	
	CM707	AES Encryption	1 +	EA	1,225.00	
	CM708	DES, DES-XL Encryption	1 +	EA	1,225.00	
	CM709	DVP-XL Encryption	1 +	EA	1,225.00	
	CM710	DVI-XL Encryption	1 +	EA	1,225.00	
	CM711	Securenet	1 +	EA	1,225.00	
	CM712	VSELP	1 +	EA	1,225.00	
	CM713B	Project 25 Conventional		EA	1,421.00	
	RLN4034A	C-Message Filter with 600 Ohm Meter Load	1 +	EA	490.00	
	RLN4361A	CCITT Filter with 600 Ohm Meter Load	1 +	EA	490.00	
	RLN4484A	Phase Modulation / Demodulation	1 +	EA	681.00	
	RLN4329A	IEEE 488.2 Remote Interface	1 +	EA	583.00	
	TBD	Autotest / Auto align for Motorola Radios				
	RVN5012B	Auto-test - XTS3000/ASTRO SABER	1+	EA	1,960.00	
	RVN5013B	Auto-test - XTS5000	1+	EA	1,960.00	
	RVN5016B	Auto-test - XTS3000/XTS5000/ASTRO SABER	1+	EA	3,724.00	
	RVN5024B	Auto-test - ASTRO SPECTRA	1+	EA	1,960.00	
	RVN5025B	Auto-test - ASTRO SPECTRA PLUS	1+	EA	1,960.00	
		Auto-test - SPECTRA/SPECTRA PLUS Value	1+	EA	3,724.00	
	RVN5026B	Pack				
	RVN5027B	Auto-test Suite - RVN5016 plus RVN5026	1+	EA	7,252.00	
	TBD	Project 25 Phase 2				
		KVL Keyloader Option (Included with the CM713)				
	TBD	LSM Advanced / P25 - 2 Advanced				
		P25 Trunking VHF/UHF/ 700MHz (Included in the CM714)			_	
1.2.		Extended Warranties For R2670B				
	RLN4501A	3 Year Extended Warranty, Includes 2 Calibrations Total Warranty 3 years	1 +	EA	1,127.00	

Req.	Part #	Description	Qty	Unit	Unit	Total Price
Item	General Dynamics C4 Systems				List Price	
	RLN4502A	5 Year Extended Warranty, Includes 4 Calibrations Total Warranty 5 years	1 +	EA	1,936.00	
1.3.		Accessories For R2670B				
	6880309F17	Manual, R2670B (Supplied As Standard)	1+	EA	N/C	
	RLN5237A	Maintenance Manual on CD Rom	1 +	EA	343.00	
	A001	Heavy Duty Transit Case	1 +	EA	583.00	
	A002	Heavy Duty Transit Case with wheels	1 +	EA	858.00	
	1580357B77	Case, Soft Padded Carrying	1 +	EA	171.50	
	5880345B96	RF Detector Probe, 50 Ohm Termination	1 +	EA	285.00	
	RTA4000A	Telescoping Antenna (Supplied As Standard)	1 +	EA	44.00	·
	RPX4097A	DC Power Connector	1 +	EA	34.00	
	0982578B01	BNC RF 'T'	1 +	EA	16.00	

The prices added into this section are all at MSRP - added for information purposes only as a comparison.

Req.	Part #	Description	Qty	Unit	Unit Price,	Total
Item					List price	Price
2.		R2670B Communications Service Monitor – USA				
2.1		Com-120C Communications Service Monitor W/ Tracking Generator, 30 kHz if Filter, 110V				
		Com-120C W/ Tracking Generator, 30 kHz if Filter, 220v				
	R2670B	Com-120C W/ Tracking Generator, 30 kHz if Filter, 0.01 Pm OCXO,110v	1 +	EA	15,950.00	
		Com-120C W/ Tracking Generator, 30 kHz if Filter, 0.01 Pm OCXO, 220V				
		Com-120C W/ Tracking Generator, SSB Receive Filter,110V (Not Available)				
		Com-120C W/ Tracking Generator, SSB Receive Filter, 220V (Not Available)				
		Com-120C W/ Tracking Generator, SSB Receive, 0.01 PPM OCXO,110V (Not Available)				
		Com-120C W/ Tracking Generator, SSB Receive, 0.01 PPM OCXO, 220V (Not Available)				
2.1.		Options For R2670B				
	RPN4000A	Internal Rechargeable Battery (External)	1 +	EA	795.00	
		Data Generator/BER Meter (Not Available)				
-		RCC Signalling (Not Available)				
		Digital/Analog Signalling				
	RLN4329A	IEEE-488.2	1 +	EA	595.00	
		Clear Channel LTR (Not Available)				

Contractor: Page number

Harris Stratex Networks Operating Corporation

Current Contract Informatio

Contract No. 02702

Page 128

Contact: Laurent Brigdan

Alternate Contact:

John King

Phone: Fax:

206-340-1015

210-561-6282

Email:

408-944-1120 laurent.brigdan@hstx.com

408-944-2451

john.king@hstx.com

Internet address:

www.harris-stratex.com

Web catalog address:

34-0276860

Federal ID No.: Supplier No.:

W326

Total Contract worth: Payment address:

\$500,000,000.00

Morrisville, NC 27560

637 Davis Drive

Order

637 Davis Drive

Morrisville, NC 27560

placement address:

Customer Service: Telephone:

Laurent Brigdan 206-340-1015 321-674-2590

Fax: Ordering procedures:

Credit card acceptance:

Visa, MasterCard

Minimum orders:

Delivery time:

Days After Receipt of Order (ARO): Aurora: 30 days, Constellation, MegaStar,

Galaxy, Microstar, TRuepoint: 60 days, SPR Series, TBD

Payment terms:

0% 30 days

Shipping destination:

Freight on Board (FOB) destination

Freight:

Prepaid and included

Palletization:

N/A

Category

Category 5, Digital Microwave Radios

Equipment Line items

Accessories at pass through pricing and added options at reduced prices see

contractor

Link to bid Specifications

Awarded Phase(s)

Phase I & II

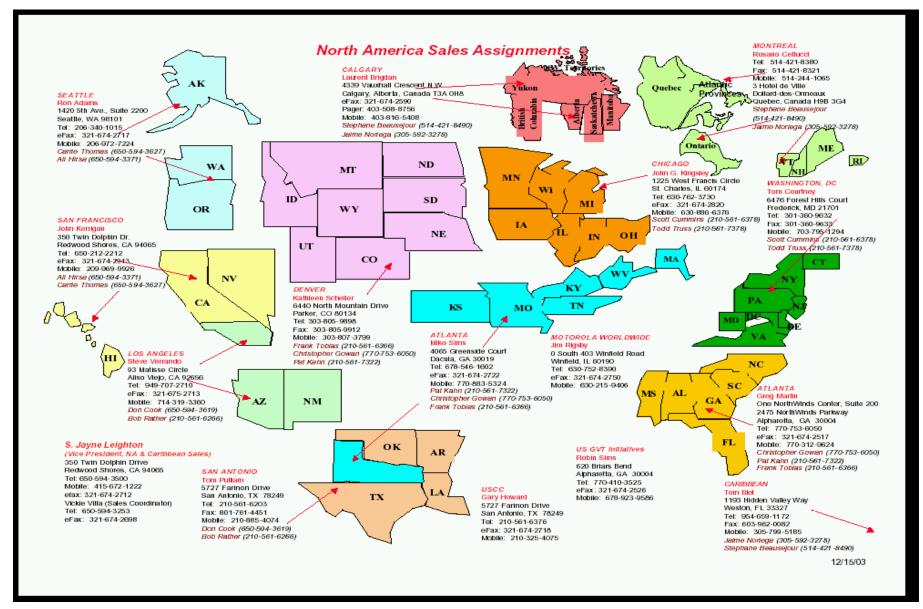
State of Washington - Office of State Procurement Microwave Radio Bid Response Price Sheet Optional Items-Technical Services Price (Per Price Book) Description Item **Frequency Coordination** 1.00 1.10 Frequency Bands-6 and 11 GHz 1.11 First Frequency Pair \$1,400.00 1.12 Additional Frequency pairs coordinated at the same time. \$900.00 Frequency Bands-10, 18 and 23 GHz 1.20 First Frequency Pair \$1,300.00 1.21 Additional Frequency pairs coordinated at the same time. \$850.00 1.22 Renewal Notices-Required to protect coordinated paths when 1.30 license filings haven't been submitted. For first path \$320.00 1.31 1.32 For each additional path at the same time \$70.00 FCC License Preparation 1.40 1.41 Per site location \$400.00 1.50 FCC License Submittal Fee

New License-per site location	\$480.00
Modification to License-per site location	\$295.00
Verbal Coordination Expedite	
For first path	\$850.00
For each additional path at the same time	\$200.00
Field Engineering	
Field Service Enginner (rate per man day)	\$1,200.00
Field Living Expenses (rate per calender day)	\$152.00
Installation Services (Per Man Day)	
EF&I Project Engineering	\$800.00
Program Management	\$1,126.00
Field Engineer	\$880.00
Network Engineering	\$1,100.00
Application Engineering	\$900.00
Transmission Engineering	\$1,100.00
	Modification to License-per site location Verbal Coordination Expedite For first path For each additional path at the same time Field Engineering Field Service Enginner (rate per man day) Field Living Expenses (rate per calender day) Installation Services (Per Man Day) EF&I Project Engineering Program Management Field Engineer Network Engineering Application Engineering

Current Contract Informatio

Page	131
1 450	101

3.70	Path Survey (for up to 3 paths; over 3 paths obtain quote)	\$2,700.00
3.80	Field Evnenges	\$152.00
3.60	Field Expenses	\$132.00
	¹ Please see Harris Price Book, Volume II for more details and conditions for above items	



PHASE I

HA	RRIS MCD DISCOUNT SCHEDULE	FOR WSCA PHASE I INCL.	ACCESSORIES
1	Constellation 6 GHz	8 x T1	59%
2	Constellation 6 GHz	16 x T1	59%
3	Constellation 6 GHz	28 x T1	60%
4	Constellation 6 GHz	OC3	61%
5	Constellation 6 GHz	3 DS3	60%
6	Constellation 10/11 GHz	8 x T1	60%
7	Constellation 10/11 GHz	16 x T1	60%
8	Constellation 11GHz	28 x T1	61%
9	Constellation 11 GHz	OC3	65%
10	Constellation11 GHz	3 DS3	63%
11	MegaStar 155-6 GHz	OC-3	53%
12	MegaStar 155-11 GHz	OC-3	52%
13	MegaStar 155-6 GHz	3 DS3	54%
14	MegaStar 155-11 GHz	3 DS3	52%
	(See Constellation above for OC3 and	3 DS3 radios. MegaStar availa	able for system expansions)
15	MicroStar 18 ext mux	28 x T1	50%
16	MicroStar 18 ext mux	28 x T1	50%
17	MicroStar 18 ext mux	16 x T1	50%
18	MicroStar 18 ext mux	16 x T1	50%
19	TRuepoint 18	28 & 16 x T1	Year 1@ 50% Year 2 & 3 @ 59%
20	MicroStar 23 ext mux	28 x T1	44%
21	MicroStar 23 ext mux	28 x T1	44%
22	MicroStar 23 ext mux	16 x T1	44%
23	MicroStar 23 ext mux	16 x T1	44%
24	TRuepoint 23	28 & 16 x T1	Year 1@ 44% Year 2 & 3 @53%

24	Galaxy 18 GHz	OC3	37%		
	•	OC3	36%		
25	Galaxy 23 GHz	UCS	30%		
26	TRuepoint 18 GHz	OC3	Year 1 @ 37% Year 2 & 3 @ 46%		
27	TRuepoint 23 GHz	OC3	Year 1 @ 36% Year 2 & 3 @ 45%		
21		003	1eai 1 @ 30% 1eai 2 & 3 @ 43%		
20	All other TRuepoint capacities, frequencies, &		V 10070/ V 2000 460/		
28	accessories		Year 1 @ 37% Year 2 & 3 @ 46%		
	All Eclipse/ Unity / IRU 600 capacities,				
29	frequencies & accessories		Year 1 @ 37% Year 2 & 3 @ 46%		
	-				
30	Aurora 5.8, unprotected	1 X T1	47%		
31	Aurora 5.8, unprotected	2 X T1	56%		
32	StarView	NMS	10%		
33	FarScan for Windows	SW	NO CHARGE		
34	CAU remote alarm unit	32 alarms	\$1,920		
35	MicroStar order wire		\$225		
36	Constellation order wire		\$625		
37	MegaStar order wire		\$625		
38	Rack and fuse panel*		\$500		
39	M13 mux		\$2,519		
40	OEM equipment		Per price list attached		
	** Space Diversity additional cost				

Frequenc					Radio					Date: 7/24/03
y Band: 6					Configuratio					
GHz					n: Hot					
					Standby -					
					Terminal					
Capacity	Model	Radio List	Radio	Mux	MW Equip	MW Equip	No DS1	Orderwir	Alarm	Total Line
in T1s	Number	Price	Discount	Price (No	(Radio w/	(Radio w/	Multiplex4	e Price	and	Price, 1st Year
	Constella			Discount)	DS1 Mux)	DS1 Mux)	(per Section		Control	
	tion				Price First	Price	1.22 (4) of		Price	
					Year3	Second/Thir	Phase 2			
						d Year3, 6	Thase 2			

						Tech Specs)			
DS34	RC306EE STPZ#B0 00B	\$58,000.00	58.00%	\$24,360.00	\$19,140.00	\$24,360.00	\$625.00	included	\$24,985.00
3xDS34	RY106EG TPV##000 0B	\$70,725.00	60.00%	\$28,290.00	\$21,924.75	\$28,290.00	\$625.00	included	\$28,915.00
2xDS3 + 28DS14	RY106EG TPW##00 00B	\$77,725.00	63.00%	\$28,758.25	2nd Year: \$28,758.25 3rd Year: \$21,763.00	\$28,758.25	\$625.00	included	\$29,383.25
4xDS34	RY106EG TPY#P00 00B	\$83,500.00	69.00%	\$25,885.00	2nd Year: \$25,885.00 3rd Year: \$18,370.00	\$25,885.00	\$625.00	included	\$26,510.00
3xDS3 + 28DS14	RY106EG TPZ##000 0B	\$90,500.00	71.00%	\$26,245.00	2nd Year: \$26,245.00 3rd year: \$18,100.00	\$26,245.00	\$625.00	included	\$26,870.00

Notes:

or service channel interfaces.

This is an example of Phase I pricing

¹Power shall be measured at top of flange in dBm.

²Based on 10⁻³ Bit Error Rate receiver sensitivity.

³Prices include a fully functional assembly with all standard industry interfaces for the signal payload, power connections, alarm I/O connections and any required data

⁴This space is reserved for vendors to add either equipment configurations or additional options.

⁵Provide physical interfaces for radio bid, ie Fast Ethernet, T1, DS3 etc

⁶Second (2nd) year discounts do not apply to 2xDS3+28DS1, 4xDS3 and 3xDS3+28DS1 capacity radios. The quantity break discounts are only valid in year three (3).

Contract No. 02702 **JPS/RAYTHEON**

Phase II Harris Corporation

Manufacturer	Freq.	Capacity in	Part number	Total Price
Band		T1's	- 1	
		Hot S	Standby - Terminal – 6 GHz	
Harris	6 GHz	28T	RC306EESTPH#B000B	\$26,425
Harris	6 GHz	SONET-OC3	RY106EGTPB##000B	\$27,544
		Non-Ho	ot Standby - Terminal – 6 GHz	
Harris	6 GHz	28T	RC306AESTPH#B000B	\$15,145
Harris	6 GHz	SONET-OC3	RY106AGTBP##000B	\$16,205
		Hot St	tandby - Terminal – 11 GHz	
Harris	11 GHz	28T	RC311EESTPH#B030B	\$27,340
Harris	11 GHz	SONET-OC3	RY111EGTPB##1030b	\$28,118
		Non-Hot	t Standby - Terminal – 11 GHz	
Harris	11 GHz	16T	RC311ACSTPE#B030B	\$14,538
Harris	11 GHz	28T	RC311AESTPH#B030B	\$15,562
Harris	11 GHz	SONET-OC3	RY111AGTPB##1030B	\$16,428
		Hot St	tandby - Terminal – 18 GHz	
Harris	18 GHz	SONET-OC3	Galaxy RX118GZM209D#22	\$24,570
			Year 1 TRuepoint / Eclipse / Unity / IRU 600	
Harris	18 GHz	SONET OC3	HT152##DE2SS##00, ST15PPNP181####1A	\$24,570
			Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600	
Harris	18 GHz	SONET OC3	HT152##DE2SS##00, ST15PPNP181####1A	\$21,060
		Non-Hot	Standby – Terminal – 18 GHz	
Harris	18 GHz	28T	Microstar M/H RK118AZS####0B001 + M13 MUX	\$7,737
Harris	18 GHz	28T	Year 1 TRuepoint / Eclipse / Unity / IRU 600	
			HT152##AA2SS##00, ST15NNNN070#1##1A	\$7,737
Harris	18 GHz	28T	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600	
			HT152##AA2SS##00, ST15NNNN070#1##1A	\$6,671
Harris	18 GHz	SONET-OC3	Galaxy RX118AZM209D#22	\$13,230
TT .	10 CH	CONTEXT OCC	Year 1 TRuepoint / Eclipse / Unity / IRU 600	¢12.220
Harris	18 GHz	SONET OC3	HT152##DA2SS##00, ST15NNNN181####1A	\$13,230
Harris	18 GHz	SONET OC3	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600 HT152##DA2SS##00, ST15NNNN181####1A	\$11,340
Hallis	16 GHZ			\$11,540
Homis	22 CHz	Non-Hot 28T	t Standby - Terminal – 23 GHz	\$9.616
Harris Harris	23 GHz 23 GHz	28T	Microstar M RF223EZS####0B41#B + M13 MUX Year 1 TRuepoint / Eclipse / Unity / IRU 600	\$8,616
narris	23 GHZ	201	HT152##AA2SS##00, ST15NNNN070#1##1A	\$8,616
Harris	23 GHz	28T	Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600	ψ0,010
111111111111111111111111111111111111111	25 5112	201	HT152##AA2SS##00, ST15NNNN070#1##1A	\$7,523
Harris	23 GHz	SONET-OC3	Galaxy RB123ADS##56B40A	\$15,168
			Year 1 TRuepoint / Eclipse / Unity / IRU 600	\$15,168
Harris	23 GHz	SONET-OC3	HT152##DA2SS##00, ST15NNNN181####1A	
			Year 2 & 3 TRuepoint / Eclipse / Unity / IRU 600	\$13,035
Harris	23 GHz	SONET-OC3	HT152##DA2SS##00, ST15NNNN181####1A	

Phase II Harris Corporation

C306ECSB####000A 7106EGCPB##0000a C306ACSB####000A C311ECSB####030A	\$48,975 \$55,090 \$26,765
C306ACSB####000A C311ECSB####030A	
C306ACSB####000A C311ECSB####030A	\$26,765
C306ACSB####000A C311ECSB####030A	\$26,765
	\$49,521
	\$50,886
111EGCPB#P0030A	\$56,235
Z	
	\$26,307
C311ACSB####030A	\$27,330
Y111AGCPB#PB#0030a	\$32,855
20 RX118GZM209D#20	\$49,140
	Φ40 140
+	\$49,140
, 00,	\$42,120
_	ψ 4 2,120
	\$13,887
	Ψ13,007
	\$13,887
#00,	Φ11 5 54
22 DV110 A 7 M200D#22	\$11,754
	\$26,460
	\$26,460
+	, ,
#00,	
	\$22,680
Z	
##0B41#B	
	\$15,645
+	\$15,645
*	
#00,	Φ10450
0 A DD 100 A DG !! !! 5 CD 40 A	\$13458
	\$30,336
-	\$30,336
+	\$26,070
	C311ACSB###030A C311ACSB###030A Y111AGCPB#PB#0030a 20 RX118GZM209D#20 Y Unity / IRU 600 QTY 2 15PPNP181###1A lipse / Unity / IRU 600 #00, Z S###0B001 M13 MUX Y Unity / IRU 600 QTY 2 T5NNNN070#1##1A lipse / Unity / IRU 600 #00, 22 RX118AZM209D#22 Y Unity / IRU 600 QTY 2 T15NNNN181###1A lipse / Unity / IRU 600 #00, Z ##0B41#B M13 MUX Y Unity / IRU 600 QTY 2 T15NNNN181###1A lipse / Unity / IRU 600 #00, Z ##0B41#B M13 MUX Y Unity / IRU 600 QTY 2 T15NNNN070#1##1A lipse / Unity / IRU 600 #00, OA RB123ADS##56B40A Y Unity / IRU 600 QTY 2 T15NNNN181####1A lipse / Unity / IRU 600 #00,

	QTY 2 - HT152##DA2SS##00,	
	ST15NNNN181####1A	

Icom American Inc.

CONTRACTOR INFORMATION

Contractor: Icom America, Inc.

Page number

Contact: Jim Alworth, East Regional Alternate Etsi Tamura

Sales Manager Contact:

Address: 1250 Wishkah Avenue, Government Customer Service

Post Falls, ID 83854 Supervisor

Phone: (208) 773-6238 (425) 450-6092 Fax: (208) 457-9437 (425) 450-6063

Mobile phone: (509) 944-0450 <u>EtsiTamura@IcomAmerica.com</u>

Email: <u>jimalworth@icomamerica.com</u>
Internet address: <u>http://www.icomamerica.com</u>

Phase I - Product Land Mobile Division – 37.25% off List Price Information and Pricing: Aviation Division – 49.25% off List Price

Phase II – Product Aviation Division – 49.25% off List Price

Inofrmation and Pricing:

Federal ID No.: 91-1083924 Supplier No.: W7651

Total Contract worth: \$500,000,000.00

Payment address: ICOM America, Inc. Order ICOM America, Inc.

Dept. #407 placement 2380 116th Avenue NE PO Box 34935 address: Bellevue, WA 98004

Seattle, WA 98124

Customer Service: Etsi Tamura
Telephone: 425-450-6092
Fax: 425-454-1509

Ordering procedures: Email, fax or call customer service Credit card acceptance: Visa, MasterCard, American Express

Minimum orders: N/A

Delivery time: 30-60 days After Receipt of Order (90 days on large orders)

Payment terms: 3% - 30 days net 45

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category 2 Aircraft Band Radios

Equipment Line items

Support Services \$71.25 per hour Repair Services \$71.25 per hour Installation Services \$33.25 per radio Programming Services \$33.25 per radio Link to bid Specifications Awarded Phase(s)

 $\underline{http://www.ga.wa.gov/pca/bids/02702\text{-}Phase2\text{-}Category2.doc}$

Phase I & II

Phase I & II - Equipment from our 4 divisions (Amateur, Avionics, Marine and Land Mobile) to WSCA and Non-WSCA states for Icom equipment.

WHEN END USER PURCHASES DIRECT FROM ICOM	FOR AVIONICS PRODUCTS SEE AUTHORIZED DEALERS:		
	WSCA Dealer List. pdf		
Land Mobile Division 37.25% off List price	Phase One & Phase Two Pricing:		
AVIONICS 49.25% off list price	ICOM Pricing April 08. pdf		

SPECIFICATION

S

AM Band Aircraft Radio

Description		
One panel mounted VHF-AM Aeronautical Transceiver (VHF-1)		
Two panel mounted VHF-AM Aeronautical Transceiver (VHF-1 and		
VHF-2)		
Operating in the frequency band of 118.00 to 135.975 MHz		
With a minimum of 760 channels in no greater than 25 Khz increments		
Minimum of 5 watt carrier output power		
Must be TSO certified		

CONTRACTOR INFORMATION

Contractor: Raytheon JPS Communications

Page number

Contact: Alternate Contact: Marcia Gatlin

Phone: 919 790 1011 X1540

Fax: 919 790 1456

Email: <u>marcia.gatlin@jps.com</u>

Internet address: www.jps.com

Web catalog address:

Federal ID No.: 56-1621866

Supplier No.: W4181

Total Contract worth: \$500,000,000.00

Payment address: Raytheon/JPS Order placement Raytheon/JPS

5800 Departure Drive address: 5800 Departure Drive

Raleigh, NC 27616

Raleigh, NC 27616

Customer Service: Marica Gatlin

Telephone: 919 790 1011 X1540

Fax: 919 790 1456

Ordering procedures:

Credit card acceptance: Master Card, Visa

Minimum orders:

Delivery time: 30 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category ACU1000

Equipment Line items

Link to bid Specifications http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc

Awarded Phase(s) Phase I & II

The purpose of this section is to purchase an audio switch unit(s) that has components that are interface modules, each designed to connect a specific communications medium (VHF/UHF radio, telephone or Satcom, HF radio, local operator, ect.), a control module, a power supply module, a chassis to accommodate the modules, and a backplane to route audio and control signals between modules.

Category 4, Specifications for ACU1000

Description				
Description Description				
RDI-1/DSP-1/AP-1 RX Audio Input				
Input Impedance: Balanced or unbalanced 600 ohms or 10k ohms.				
Input level: -30 dBm to + 10 dBm, adjustable.				
Frequency Responses: 100 Hz to 3200 kHz <u>+</u> 2Db RDI-1/DSP-1 TX Audio Output RDI-1/DSP-1/AP-1 TX Audio Output				
Output Impedance: Balanced or unbalanced 600 ohms.				
Output Level: -20 to +11 dBm, adjustable.				
Frequency Response: 100 to 3200 Hz ± 2dB				
RDI-1/DSP-1/AP-1 COR Input				
Input Impedance: 47K ohm pullup to + 5V.				
Polarity: Active low or high, selectable.				
Threshold: + 2.5V nominal.				
Protection: up to $\pm 100 \text{ VDC}$				
RDI-1/DSP-1/AP-1 PTT Output				
Output Type: Open drain, 47k ohm pullup to +5V.				
Polarity: Active low or high, selectable.				
Maximum Sink Current: 100 mA				
Maximum Open Circuit Voltage: + 60 VDC				
PSTN-1 Telephone Interface				
Telephone Line Levels: Adjustable –24 dBm to 0 dBm in 3 dB steps.				
Hybrid Type: DSP adaptive hybrid; -30 dB broadband balance.				
Frequency Response: 100 Hz to 3200 Hz ± 2 dB				
VOX Threshold: Selectable –19, -16, -13, and –10 dB relative to telephone line level.				
VOX Hangtime: Selectable 0.5, 1.0, 1.5, and 2.0 seconds.				
General/ Environmental				
Control Processor Module Serial Port: RS-232 DCE connector (female DB0). Baud rates: 1200,				
2400, 4800, or 9600, software selectable.				
Power Supply Front Panel (PSM-1A): Power on/off Switch; AC on, DC on, +12 VDC, - 12 VDC				
LEDs.				
Handset/Speaker Fount Panel (HSP-2): Speaker, Speaker on/off switch, 1/8 inch Headphone jack,				
Volume control, PTT LED, Fault LED, Handset jack, 3X4 Keypad.				
Control Processor Front Panel (SPM-2): Master, Slave, and Fault LEDs.				
Radio Interface Front Panel (RDI-1): Signal, COR, PTT, and Fault LEDs.				
Tel Interface Front Panel (PSTN-1): Monitor, Ring, Connect, VOX, and Fault LEDs: L1 and L2				
RJ11C Connectors.				
Local Phone Front Panel (LP-1): Monitor, Ring, Off Hook, VOX, and Fault LEDs: L1 and L2				
RJ11C Connectors.				
Andia Drassessa Front Danel (AD 1), Drasses DTT Named Dealt LEDs Drasses switch				

Audio Processor Front Panel (AP-1): Bypass, PTT, Normal, Peak LEDs, Bypass switch.

Description			
Rear Panel: DC fuse holder, AC filter module, connectors to interface up to 12 modules, Serial			
remote connector, Expansion connector.			
AC Input Power: 115 to 230 VAC <u>+</u> 15%, 47-63 Hz, 100 VA typical, 130 VA maximum.			
DC Input Power: + 11 to + 15 VDC @ 5A nominal.			
Size: 5.25 in H X 19 in W X 11 in D (13.3X48.3X28 cm)			
Temperature: Operation: -20 to +60 degrees C. Storage: -40 to +85 degrees C.			
Humidity: Up to 95% @ 55 degrees C.			
Shock: MIL-STD-810D, method 516.3, procedure VI			
Vibration: MIL-STD-810D, Method 514.3, Category I.			
Provide product support for 7 years after last unit being purchase from this IFB.			
Provide Required Firmware, Software updates or improvements at no cost for 7 years after last unit			
being purchase from this IFB.			

PRICE SHEETS

Req.	Comm.	Description	Total Price
Item	Code		
1.		JPS ACU-1000 Required Equipment Bundle – Includes the ACU-1000 Card Cage, PSM-1A Power Supply Module, CPM-4 Control Processor Module, and HSP-2 Handset Speaker Module For Product Bid State: Mfg.: Raytheon/JPS	\$7,150.00
		Brand/Model: 5961-220000	
2.		PSM-1A Power Supply Module – 60W Power Supply, Spare Module for ACU-1000 Required Equipment Bundle	\$855.00
		Brand/Model: 5951-813000	.
3.		CPM-4 Control Processor Module – Spare Module for ACU- 1000 Required Equipment Bundle, provides a network interface for remote control and programming	\$1,280.00
		Brand/Model: 5961-213000	
4.		HSP-2 Handset Speaker Module – Spare Module for ACU- 1000 Required Equipment Bundle	\$1,805.00
		Brand/Model: 5962-314000	
5.		ACU-1000 Chassis – Spare Chassis for ACU-1000 Required Equipment Bundle	\$3,210.00
		Brand/Model: 5961-200000	
6.		DSP-2 Radio/4-Wire Interface Module – used with the ACU-1000 and ACU-T, provides VoIP/RoIP compatibility	\$1,125.00
		Brand/Model: 5961-818000	

Req. Item	Comm. Code	Description	Total Price
7.	Code	PSTN-1 Public Switched Telephone Interface Module – used with the ACU-1000 and ACU-T	\$1,125.00
		Brand/Model: 5961-215000	
8.		LP-1 Local Phone Set Module – used with the ACU-1000 and ACU-T	\$1,125.00
		Brand/Model: 5961-217000	
9.		RX AP-1 RX Audio Processor Module Assembly – used with the ACU-1000	\$1,125.00
		Brand/Model: 5961-294001	
10.		TX AP-1 TX Audio Processor Module Assembly – used with the ACU-1000	\$1,125.00
		Brand/Model: 5961-294002	
11.		ACU-T Tactical Package – AC/DC Powered, Includes Card Cage, HSP-4 and CPM-4 Modules, and Accessory Kit	\$5,980.00
		Brand/Model: 5030-200000	
12.		ACU-T Bundle Kit – Includes the ACU-T Tactical Package and Case Option Kit with Battery Five Interface Modules are already included in price of Bundle Kit. Select five modules in any combination from the following - DSP-2, PSTN-1, LP-1, RX AP-1, or TX AP-1 modules. Anything less is not a Bundle Kit.	\$11,605.00
		Brand/Model: 5030-210000	
13.		Primary/Secondary Option Cable – used with the ACU-1000	\$255.00
		Brand/Model: 0314-037000	
14.		NXU-2 Network eXtension Unit – Desktop, 110V AC to +12V DC Powered	\$1,500.00
		Brand/Model: 5000-600000	

SNV-12 Standard Voter Chassis

(Rack Mount, AC/DC Powered) Includes Card Cage, PSM-1A Power Supply Module, CIM-2a Console Interface Module, and CPM-1 Control Processor Module, PN#5951-800000 - \$4,4,11.20 each

SVM-2 Site Voter Module (up to 12 per chassis) PN# 5952-112000 \$792.00 each

SNV-12 Options

PTG-10 Pilot Tone Generator, PN#5970-900000 \$480.00 each

Expansion Cable to Second Chassis (up to 24 sites), PN#5951-896024 \$172.80 each

Expansion Cable to Second and Third Chassis (up to 36 sites), PN# 5951-896036 \$283.20 each

SNV-12 Chassis Spare Modules

PSM-1A Power Supply Module, PN# 5951-813000 \$955.20 each

CIM-2a Console Interface Module, PN#5041-100000 \$955.20 each

CPM-3 CPU Module, PN# 5061-100000 \$825.60 each

Extender Card Assembly, PN# 5951-707000 \$62.40 each

ARA-1 Analog Radio Adapter

(Desktop, 110VAC to +12V DC Powered, 115/220VAC 60/60Hz)) PN# 5060-800000 \$1,435.20 each

External equipment interface cables for the ARA-1 must be ordered separately.

ARA-1 5 Pack – Five ARA-1 Units PN#5060-820000 \$4,776.00

ACU-2000 Modular SIP VoIP Interconnect System

Rack Mount, AC/DC Powered, complete with ACU Controller Software

ACU-2000 IP Required Equipment Bundle (Includes the ACU-2000 IP Card Cage, PSM-1 IP Power Supply Module, CPM-6 Control Processor Module, and HSP-2 IP Handset Speaker Module, PN#5961-230000 \$10,555.20

ACU-2000 IP Interface Modules

SCM-1 Radio /SIP Interface Module, PN#5061-300000 \$2,006.40

SCM-2 Radio/SIP Interface Module, PN#5061-330000 \$2,006.40

DSP-2 IP Radio/4 Wire Interface Module, PN# 5961-838000 \$1,238.40

PSTN-1 IP Public Switched Telephone Interface Module, PN# 5961-235000 \$1,238.40

PSTN-2 IP Public Switched Telephone Interface Module, PN# 5050-330000 \$1,238.40

LP-1 IP Local Phone Set Module, PN#5961-237000 \$1,238.40

Spare Modules for ACU-2000 IP Required Equipment Bundle

ACU-2000 IP Chassis, PN# 5961-231000 \$3,235.20

PSM-1 IP Power Supply Module, PN#5951-833000 \$931.20

CPM-6 IP Control Processor Module, PN#5961-233000 \$4,795.20

HSP-2 IP Handset Speaker Module, PN# 5040-632200 \$1,968.00

ACU-M Interconnect System

ACU-M package – includes unit with 4 radio interfaces, 110/220V power supply and AC/DC power cords, PN# 5060-100000 \$4.123.20

Network Option – enables two VoIP channels and WAIS capability, PN#5060-109000 \$508.80

ACU-M package installed in a heavy duty carrying case, includes battery and a charger, PN#5060-107000 \$4,795.20

Carrying Case Option for ACU-M – includes battery backup and charger, PN# 5060-107500 \$931.20

Optional spare mounting bracket, PN#5060-100300 \$48.00

VOLUME DISCOUNT PROGRAM - PHASE 1 AND PHASE 2 ALL CATEGORIES

The volume discount will be cumulative and over the term of the contract. (Initial Term of Three [3] Years)

Additional Discount off Net	Cumulative Total	Cumulative Total
Contract Unit Price	Sales from:	Sales to:
2 %	\$ 5,000,000	\$ 9,999,999
3 %	\$ 10,000,000	\$ 14,999,999
3 %	\$ 15,000,000	\$ 19,999,999
4 %	\$ 20,000,000	\$ 29,999,999

		•
5 %	\$ 30,000,000	\$ 39,999,999
5 %	\$ 40,000,000	\$ 49,999,999
5 %	\$ 50,000,000	\$ 59,999,999
5 %	\$ 60,000,000	\$ 69,999,999
5 %	\$ 70,000,000	\$ 79,999,999
5 %	\$ 80,000,000	\$ 89,999,999
5 %	\$ 90,000,000	\$ 99,999,999
5 %	\$100,000,000	\$ 100,000,000+

Page 145

Current Contract Information

Contract No. 02702 **Kenwood**

CONTRACTOR INFORMATION

Contractor: Kenwood USA Corporation

P.O. Box 22745

Long Beach, CA 90801-5745

Page number

Contact: Barry Morris Alternate Contact: Cheryl Daly

Phone: 800-752-0986 x8280 800-752-0986 x4469

Fax: 310-761-8246 360-761-8246

Email: bmorris@kenwoodusa.com cdaly@kenwoodusa.com

Internet address: http://www.kenwood.net

Web catalog address:

Federal ID No.: 95-2948901 **Supplier No.:** W6384

Total Contract worth: \$500,000,000.00

Payment address: See Listed Dealer Order placement See Listed Dealer

Locations by State address: Locations by State

Customer Service: Donetha Willis 800-752-0986 x8343

Fax: 310-761-8246

For a quotation or suggested retail pricing, contact one of the listed dealers

below.

WSCA Dealers 10.29.08 Revised.xls

Ordering procedures:

Credit card acceptance: Visa

Minimum orders:

Delivery time: days After Receipt of Order (ARO)

Payment terms: 2% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category Category 1, Analog & Digital Portables, Digital Trunked Mobiles.

Phase One Product line

WSCA Product 10.13.08.xlsx

Link to bid Specifications

Current Contract Information

Contract No. 02702 **Kenwood**

Page 147

Currently Installed 30% o

30% off Manufacturer List Price

Systems, upgrade equipment, radio

equipment and accessories

Support Services\$65.00 per hourInstallation Services\$65.00 per hourRepair Services\$90.00 per hourAwarded Phase(s)Phase I & II

Kenwood PHASE I PRICING

Req. Item	Comm. Code	Description	Qty	Unit	Percentage off Mfg List Price
1.		Page Station	1-4	EA	30%
1.		Base Station	5-10	EA	30%
			3-10 11+	EA	30%
		D.			
2.		Repeater	1-4	EA	30%
			5-10	EA	30%
			11+	EA	30%
3.		Portable Radio	1-49	EA	30%
			50+	EA	30%
4.		Mobile Radio	1-20	EA	30%
			21-100	EA	30%
			101+	EA	30%
5.		Desktop	1-20	EA	30%
		1	21-100	EA	30%
			101+	EA	30%
6.		Console Unit	1-9	EA	
			10+	EA	
7.		Support Services	1	HR	\$65.00
8.		Installation Services	1	HR	\$65.00
9.		Repair Services	1	HR	\$90.00
10.		Accessories		EA	30%
11.		List other Equipment		EA	

Contract No. 02702 **Kenwood**

Phase I Equipment

TK-190	TK-980
TK-260	TK-981
TK-270	TK-2100
TK-272	TK-2140
TK-280	TK-2160
TK-290	TK-3100
TK-360	TK-3130
TK-370G	TK-3131
TK-372G	TK-3140
TK-373	TK-3160
TK-380	TK-5210
TK-390	TK-5710
TK-480	TK-6100
TK-481	TK-7150
TK-690 (H)	TK-8150
TK-760G (H)	TKB-720
TK-762G (H)	TKR-720
TK-790 (H)	TKR-750
TK-780	TKR-820
TK-860G (H)	TKR-850
TK-863G	KDS-100
TK-880	GPS
TK-890(H)	FLEETSYNC
TK-930	PASSPORT
TK-931	SYSTEMS

Kenwood - Phase II

Kenwood Price Sheets

ITEM	Mfg Name	Brand/Model#	Total Price
Portable Analog			
High VHF 136-174 Quality Category D	Kenwood	TK-280K / K2	\$498.50
UHF 450-470 Quality Category C	Kenwood	TK-380K	\$498.50

Kenwood – Phase II Portable Analog

High VHF 136-174 Quality Category D

ingir viii 100 171 Quanty O	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	2	250
Operational Bandwidth/Maximum Frequency Separation, MHz	38	38
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	2.5
Channel Spacing, kHz	12.5 / 25 / 30	12.5 / 25 / 30
TRANSMITTER		
RF Power Output, Watts	1/5 selectable (Low/High)	1/5
Radiated Spurious & Harmonic Emission, dB	-60	-70
FM Noise, dB	-40	-45
Audio Distortion, % maximum	5	3
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-75/-65
Spurious and Image Rejection, dB	-70	-70
Intermodulation, dB	-70	-70
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	5
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-
Price FOB Destination freight prepaid & included in price		\$498.50
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		Kenwood USA
Prices are based on price list quoted above dated:		7/1/2003
Discount percentage represented by this price is		27%
Delivery - expressed in days after Receipt of Order		Less than 60 Days
Warranty Period - in excess of that required by the specifications (in days)		365 Days
% Tax required		0%
Components added to the above model to meet required specifications:		

Kenwood – Phase II

REQUIRED OPTIONS			
Part Number	Description	Price	
KSC-19	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$25.55	
INCLUDED	Position Rotary Channel/Mode Select Switch Option		
INCLUDED	Low Battery Alert Tone Option		
TK-280K3 / K4	Dual Tone Multi Frequency encoder and Key Pad Option	\$24.09	
KLH-75B / 76B	Leather Carrying Case Option	\$30.66	
KMC-25	External Speaker/Microphone Option	\$67.16	
OPTIONAL OPTIONS			
KVC-5	Vehicular Charger/Console Option	\$248.20	
INCLUDED	Flashing EEPROM		
INCLUDED	Provision for Field Software Upgrade		
NO	Secure Encryption Option		
KVC-8A	RF Power Amplifiers Option	\$646.05	
INCLUDED	Paging Decoder Option		
INCLUDED	Emergency Button/Switch Option		
INCLUDED	Programmable Button/Switch Option		
INCLUDED	Push-to-talk ID Transmission Option		
INCLUDED	Alphanumeric Display Option		

Kenwood – Phase II Portable Analog

UHF 450-470 Quality Category C

<u> </u>	STANDARD SPECIFICATION	BIDDER'S SPECIFICATION
GENERAL		
Number of Channels/Modes/Personalities	14	250
Operational Bandwidth/Maximum Frequency Separation, MHz	20	40
Frequency Stability (-30 °C to + 60 °C), PPM	± 2.5	± 2.5
Channel Spacing, kHz	12.5 / 25	12.5 / 25
TRANSMITTER		
RF Power Output, Watts	1/4 selectable (Low/High)	1/4 selectable (Low/High)
Radiated Spurious & Harmonic Emission, dB	-60	-70
FM Noise, dB	-40	-40
Audio Distortion, % maximum	5	3
Audio Response (per TIA/EIA 603)	+1, -3	+1, -3
RECEIVER		
Sensitivity, EIA 12 dB Sinad, dBm	-116	-119
Selectivity, adj. channel (dB), 25/12.5 kHz	-70/-60	-70/-62
Spurious and Image Rejection, dB	-70	-70
Intermodulation, dB	-70	-70
Speaker Audio Output, milliwatts	350	500
Audio Distortion, % maximum	5	5
Static BER sensitivity @ 5% referenced @ 12.5 KHZ	-	-
Price FOB Destination freight prepaid & included in price		\$498.50
OTHER INFORMATION:		
Prices are based on Manufacturer's price list entitled:		Kenwood USA
Prices are based on price list quoted above dated:		7/1/2003
Discount percentage represented by this price is		27%
Delivery - expressed in days after Receipt of Order		Less than 60 Days
Warranty Period - in excess of that required by the specifications (in days)		365 Days
% Tax required		0%
Components added to the above model to meet required specifications:		

Kenwood – Phase II

REQUIRED OPTIONS			
Part Number	Description	Price	
KSC-19	Battery Charger/Vehicular Battery or Nominal 120 VAC, 60 HZ *	\$25.55	
INCLUDED	Position Rotary Channel/Mode Select Switch Option		
INCLUDED	Low Battery Alert Tone Option		
INCLUDED	Alphanumeric Display Option		
TK-380K4	Dual Tone Multi Frequency encoder and Key Pad Option	\$36.50	
KLH-75B / 76B	Leather Carrying Case Option	\$30.66	
KMC-25	External Speaker/Microphone Option	\$67.16	
OPTIONAL OPTIONS			
KVC-5	Vehicular Charger/Console Option	\$248.20	
INCLUDED	Flashing EEPROM		
INCLUDED	Provision for Field Software Upgrade		
NO	Secure Encryption Option		
KVC-8A	RF Power Amplifiers Option	\$646.05	
INCLUDED	Paging Decoder Option		
INCLUDED	Emergency Button/Switch Option		
INCLUDED	Programmable Button/Switch Option		
INCLUDED	Push-to-talk ID Transmission Option		

Contract No. 02702 **M/ACOM, Inc. – Phase II**

CONTRACTOR INFORMATION

Contractor: M/A COM

Page number

Contact: Ramona Alternate Kit Eldredge Alternate Gary Palmer,

Brunswick Contact: Contact: Pres., Pacific

Electronic, Inc.

Phone: 480-839-2500 425-269-1853 (360) 459-5212

Fax: 623 321-1442 480-839-2524

Email: brunswir@tycoelectronics.com eldredgec@tycoelectronics.com 5711 Lacey Blvd

Suite 301, Lacey, WA 98503

Corporate Contact: Roger Boucher Alternate Contact: Cristal Huyghe 434-455-9425 434-455-9451

Fax:

Email: boucherro@tycoelectronics.com huyghec@tycoelectronics.com

Internet address: http://www.macom.com/

Web catalog address:

Federal ID No.: 65-0916944 Supplier No.: W2781

Total Contract worth: \$500,000,000.00

Payment address: Dallas Lockbox Atlanta Lockbox Order placement address:

M/A-COM, Inc. M/A-COM, Inc. 950 W. Elliot Rd., #109 PO Box 121013 DEPT AT 40432 Tempe, AZ 85284

Dallas, TX 75312-1013 Atlanta, GA 31192-0432

Customer Service: Ramona Brunswick
Telephone: 480-839-2500
Fax: 480-839-2524

Ordering procedures: Call Sales Contact above with Purchase Order

Credit card acceptance: MasterCard, Visa

Delivery time: Approximately 4 to 6 weeks after receipt of required information and contingent

upon on backlog at the time of order

Payment terms: 1% 10 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category 1; Category 4, Gateway Devices.

Equipment Line items

Accessory Equipment 26% discount off Manufacturer Standard Retail Price (manufactured products and

accessories in category "N" or "C" within the M/A COM Wireless Systems,

Product and Services Catalog).

Link to bid Specifications http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc

http://www.ga.wa.gov/pca/bids/02702-Phase2-Category1.zip

Link to Price Sheets

Awarded Phase I & II

For products not listed see the M/A Com sales contacts above

Contract No. 02702 **M/ACOM, Inc. – Phase II**

TYCO ELECTRONICS REPRESENTATIVE WSCA RADIO MODELS

Revised 4/15/08

The following M/A-COM radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact M/A-COM for other versions & frequency bands of each series of radio model.

MODEL NO.	DESCRIPTION	WSCA PRICE			
VHF FREQUENCY BAND (136-174 MHZ):					
P25 DIGITAL TRUNKED PORTABLE RADIO	OS:				
HT7150SH1X w/options: HTPT, HTPA7W, HTCH9E, HTNC1C	P7150, VHF, scan model with spare Battery, desk charger and antenna	\$2,694.34			
MAEX-CH1XX w/options: MAEX-PKGPT, MAEX-NPA9X, MAEX-NC9T	P5450, VHF, scan model with spare Battery, desk charger and antenna	\$2,246.64			
MAHM-SHTXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC5W	P5150, VHF, scan model with spare Battery, desk charger and antenna	\$2,254.04			
MAKS-SHNXX w/options MAKS-PKGPT, MAKS-NPA2E, MAKS-NCH9W, MAKS-NAN6C	P3350, VHF, scan model with spare Battery, desk charger and antenna	\$1,776.00			
P25 DIGITAL TRUNKED MOBILE RADIOS:					
MAHG-SHHXX w/options MAHG-PT, MAHG-CP7W, MAHG-MC7T, MAHG-ZN5Y	M7100, VHF, 110W, scan model with Microphone and remote mount	\$3,571.24			
MAHG-SHMXX w/options MAHG-PT, MAHG-CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, VHF, 50W, scan model with Microphone and remote mount	\$3,349.24			
MAHG-SHMXX w/options MAHG-PT, MAHG-CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, VHF, 50W, scan model with Microphone and front mount	\$3,234.54			
MAKT-HSNXX w/options MAKT-PKGPT, MAKT-NCP9L, MAKT-NMC9B, MAKT-NAN6G	M3300, VHF, with microphone, antenna and remote mount	\$1,942.50			
P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:					
HT7150SH1X w/options HTCA, HTPA9P, HTCH9E, HTNC1C	P7150, VHF, scan model with charger, antenna and spare battery	\$1,680.54			

Current Contract Information	Contract No. 02702 M/ACOM, Inc. – Phase II	
MODEL NO.	DESCRIPTION	WSCA PRICE
MAEX-CH1XX w/options MAEX-PKGCA, MAEX-NPA9X, MAEX-NCH9T, MAEX-NNC1B	P5450, VHF, scan model with charger, antenna and spare battery	\$1,636.14
MAHM-SHVXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC5W	P5150, VHF, scan model with charger, antenna and spare battery	\$1,713.84
MAKS-SHNXX w/options MAKS-PKGCA, MAKS-NPA2E, MAKS-NCH9W, MAKS-NAN6C	P3350, VHF, scan model with charger, antenna and spare battery	\$1,221.00
P25 DIGITAL CONVENTIONAL MOBILE R	ADIOS:	
MAHG-SHHXX w/ options MAHG-CA, MAHG – CP7W, MAHG-MC7T, MAHG-ZN5Y	M7100, VHF, 110 watt, scan with Microphone and remote mount	\$2,501.94
MAHG-SHMXX w/ options MAHG-CA, MAHG – CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, VHF, 50 watt, scan with Microphone and remote mount	\$2,279.94
MAHG-SHMXX w/ options MAHG-CA, MAHG – CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, VHF, 50 watt, scan with Microphone and front mount	\$2,165.24
MAKT-HSNXX w/options MAKT-PKGCA, MAKT-NCP9L, MAKT-NMC9B, MAKT-NAN6G	M3300, VHF with microphone Antenna and remote mount	\$1,387.50
P25 DIGITAL CONVENTIONAL BASE/REF	PEATER STATION RADIOS:	
SXHPNX w/options SXSG8H, SXSF3F, SXMN2B, SXMN9C SXMN2C, SXPS9R, SXCJ5E	MastrIII Station, VHF, 110 watts with Power supply, rack mount, RX Antenna cable	\$12,296.59
ANALOG CONVENTIONAL PORTABLE RA	ADIOS:	
HT7150SH1X w/options HTPA9P, HTCH9E, HTNC1C	P7150, VHF, scan model with Charger, antenna and spare battery	\$1,421.54
GP605HTX w/options GPCH9F, GPNC5T, GPPA9G	Panther 605, VHF with Charger, antenna and spare battery	\$629.00
GP405HTX w/options	Panther 405 VHF with	\$543.90

Charger, antenna and spare battery

GPCH9F, GPNC5T, GPPA9G

Page 158

M/ACOM, Inc. - Phase II

MODEL NO.	DESCRIPTION	WSCA PRICE
ANALOG CONVENTIONAL MOBILE RADIO	OS:	
MAHG-SHHXX w/options MAHG-CP7W, MAHG-MC7T, MAHG-ZN5Y	M7100, VHF, 110 watts, scan with Microphone and remote mount	\$2,242.94
MAHG-SHMXX w/options MAHG-CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, VHF, 50 watts, scan with Microphone and remote mount	\$2,020.94
MAHG-SHMXX w/options MAHG-CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, VHF, 50 watts, scan with Microphone and front mount	\$1,906.24
KMHMCD w/option KMMC7H	KMC-300, VHF, 40 watts with microphone	\$747.40
ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:		
SXHMCX w/options SXMN2B, SXMN9C, SXMN2C, SXPS9R,	MastrIII Station, VHF, 110 watts with Power supply, rack mount, RX	\$5,162.24

Antenna cable

INTEROPERABILITY

SXCJ5E

WSCA Category 4, Interoperable Gateway Devices/IP Base Solutions

M/A-COM's NetworkFirst solution was awarded preferred vendor status in the Western States Contracting Alliance (WSCA), under <u>Category 4, Gateway Devices/IP Base</u> Solutions for interoperability.

NetworkFirst uses IP technology to provide the fastest, most reliable path to interoperability among systems of all sizes and architectures, (any band, any brand). Just as word processing, accounting, management tools and dozens of other applications run on an enterprise network, NetworkFirst is compatible with any type of end-user equipment. NetworkFirst features an IP-based network that utilizes packet technology, while allowing existing radios to communicate with each other on one network.

NetworkFirst product information and pricing is available through the WSCA sales contact above

Contract No. 02702 **M/ACOM, Inc. – Phase II**

TYCO ELECTRONICS REPRESENTATIVE WSCA RADIO MODELS

Revised 4/15/08

The following M/A-COM radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact M/A-COM for other versions & frequency bands of each series of radio model.

MODEL NO.	DESCRIPTION	WSCA PRICE
UHF FREQUENCY BAND (450-470 MHZ):		
P25 DIGITAL TRUNKED PORTABLE RADIO	OS:	
HT7150SU1X w/options: HTPT, HTPA9P, HTCH9E, HTNC1F	P7150, UHF, scan model with spare Battery, desk charger and antenna	\$2,786.84
MAEX-CU1XX w/options: MAEX-PKGPT, MAEX-NCH9T, MAEX-NNC1F	P5450, UHF, scan model with spare Battery, desk charger and antenna	\$2,246.64
MAHM-SUTXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC1N	P5150, UHF, scan model with spare Battery, desk charger and antenna	\$2,254.04
MAKS-SUNXX w/options MAKS-PKGPT, MAKS-NPA2E, MAKS-NCH9W, MAKS-NAN6F	P3350, UHF, scan model with spare Battery, desk charger and antenna	\$1,770.82
P25 DIGITAL TRUNKED MOBILE RADIOS:		
MAHG-SUHXX w/options MAHG-PT, MAHG-CP7W, MAHG-MC7T, MAHG-ZN5Y	M7100, UHF, 110W, scan model with Microphone and remote mount	\$3,571.24
MAHG-SUMXX w/options MAHG-PT, MAHG-CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, UHF, 50W, scan model with Microphone and remote mount	\$3,349.24
MAHG-SUMXX w/options MAHG-PT, MAHG-CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, UHF, 50W, scan model with Microphone and front mount	\$3,234.54
MAKT-USNXX w/options MAKT-PKGPT, MAKT-NCP9L, MAKT-NMC9B, MAKT-NAN6G	M3300, UHF, with microphone, antenna and remote mount	\$1,942.50
P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:		
HT7150SU1X w/options HTCA, HTPA9P, HTCH9E, HTNC1F	P7150, UHF, scan model with charger, antenna and spare battery	\$1,717.54

Current Contract Information	Contract No. 02702 M/ACOM, Inc. – Phase II	
MODEL NO.	DESCRIPTION	WSCA PRICE
MAEX-CU1XX w/options MAEX-PKGCA, MAEX-NPA9X, MAEX-NCH9T, MAEX-NNC1F	P5450, UHF, scan model with charger, antenna and spare battery	\$1,636.14
MAHM-SUVXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC1N	P5150, UHF, scan model with charger, antenna and spare battery	\$1,713.84
MAKS-SUNXX w/options MAKS-PKGCA, MAKS-NPA2E, MAKS-NCH9W, MAKS-NAN6F	P3350, UHF, scan model with charger, antenna and spare battery	\$1,215.82
P25 DIGITAL CONVENTIONAL MOBILE F	RADIOS:	
MAHG-SUHXX w/ options MAHG-CA, MAHG – CP7W, MAHG-MC7T, MAHG-ZN5Y	M7100, UHF, 110 watt, scan with Microphone and remote mount	\$2,501.94
MAHG-SUMXX w/ options MAHG-CA, MAHG – CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, UHF, 50 watt, scan with Microphone and remote mount	\$2,279.94
MAHG-SUMXX w/ options MAHG-CA, MAHG – CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, UHF, 50 watt, scan with Microphone and front mount	\$2,165.24
MAKT-USNXX w/options MAKT-PKGCA, MAKT-NCP9L, MAKT-NMC9B, MAKT-NAN6G	M3300, UHF with microphone Antenna and remote mount	\$1,387.50
P25 DIGITAL CONVENTIONAL BASE/RE	PEATER STATION RADIOS:	
SXUPNX w/options SXSG8H, SXSF3F, SXMN2B, SXMN9C SXMN2C, SXPS9R, SXCL5X, SXCJ5E	MastrIII Station, UHF, 110 watts with Power supply, rack mount, RX Antenna cable	\$13,114.28
ANALOG CONVENTIONAL PORTABLE RADIOS:		
HT7150SU1X w/options HTPA9P, HTCH9E, HTNC1F	P7150, UHF, scan model with Charger, antenna and spare battery	\$1,458.54
GP605STX w/options GPCH9F, GPNC5V, GPPA9G	Panther 605, UHF with Charger, antenna and spare battery	\$636.40
GP405STX w/options	Panther 405 UHF with	\$547.60

Charger, antenna and spare battery

GPCH9F, GPNC5V, GPPA9G

Page 161

M/ACOM, Inc. - Phase II

MODEL NO.	DESCRIPTION	WSCA PRICE
ANALOG CONVENTIONAL MOBILE RADIO	OS:	
MAHG-SUHXX w/options MAHG-CP7W, MAHG-MC7T, MAHG-ZN5Y	M7100, UHF, 110 watts, scan with Microphone and remote mount	\$2,242.94
MAHG-SUMXX w/options MAHG-CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, UHF, 50 watts, scan with Microphone and remote mount	\$2,020.94
MAHG-SUMXX w/options MAHG-CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, UHF, 50 watts, scan with Microphone and front mount	\$1,906.24
KMUMCD w/option KMMC7H	KMC-300, UHF, 40 watts with microphone	\$699.30
ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:		
SXUMCX w/options	MastrIII Station, UHF, 110 watts with	\$5,905.94

Antenna cable

Power supply, rack mount, RX

INTEROPERABILITY

SXMN2B, SXMN9C, SXMN2C, SXPS9R,

SXCJ5E

WSCA Category 4, Interoperable Gateway Devices/IP Base Solutions

M/A-COM's NetworkFirst solution was awarded preferred vendor status in the Western States Contracting Alliance (WSCA), under <u>Category 4, Gateway Devices/IP Base</u> Solutions for interoperability.

NetworkFirst uses IP technology to provide the fastest, most reliable path to interoperability among systems of all sizes and architectures, (any band, any brand). Just as word processing, accounting, management tools and dozens of other applications run on an enterprise network, NetworkFirst is compatible with any type of end-user equipment. NetworkFirst features an IP-based network that utilizes packet technology, while allowing existing radios to communicate with each other on one network.

NetworkFirst product information and pricing is available through the WSCA sales contact above

Contract No. 02702 **M/ACOM, Inc. – Phase II**

TYCO ELECTRONICS REPRESENTATIVE WSCA RADIO MODELS

Revised 4/15/08

The following M/A-COM radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact M/A-COM for other versions & frequency bands of each series of radio model.

MODEL NO.	DESCRIPTION	WSCA PRICE
800 MHz FREQUENCY BAND	(806-870 MHZ):	
P25 DIGITAL TRUNKED PORTABLE RADIO	OS:	
MAPT-S7HXX w/options MAPT-PT, MAPT-PA9P, MAPT-NC5X, MAPT-CH9E	P7250, 800 MHz scan model with spare Battery, desk charger and antenna	\$3,318.90
HT7150S81X w/options: HTPT, HTPA9P, HTCH9E, HTNC1K	P7150, 800 MHZ, scan model with spare Battery, desk charger and antenna	\$2,934.84
MAEX-C81XX w/options: MAEX-PKGPT, MAEX-NPA9X, MAEX-NC9T, MAEX-NNC1K	P5450, 800 MHZ, scan model with spare Battery, desk charger and antenna	\$2,246.64
MAHM-B7TXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC5X	P5250, 800 MHZ, scan model with spare Battery, desk charger and antenna	\$2,601.10
MAHM-S8TXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC1K	P5150, 800 MHZ, scan model with spare Battery, desk charger and antenna	\$2,217.04
P25 DIGITAL TRUNKED MOBILE RADIOS:		
MAMV-FDLXX w/options MAMV-PT, MAMV-NZN7W MAMV-CP9E, MAMV-MC7Z, MAMV-AN3J	M7200, 700/800 MHZ, full duplex w/GPS Microphone, antenna, remote mount	\$43051.50
MAHG-S8MXX w/options MAHG-PT, MAHG-CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, 800 MHZ, 35W, scan model with Microphone and remote mount	\$3,201.24
MAHG-S8MXX w/options MAHG-PT, MAHG-CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, 800 MHZ, 35W, scan model with Microphone and front mount	\$3,086.54
P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:		
MAPT-S7HXX w/options MAPT-CA, MAPT-PA9P, MAPT-NC5X, MAPT-CH9E	P7250, 800 MHZ, scan model with charger, antenna and spare battery	\$2,249.60

Current Contract Information	Contract No. 02702	Page 164
Carrent Contract Information	M/ACOM, Inc. – Phase II	1450 101
MODEL NO.	DESCRIPTION	WSCA PRICE
HT7150S81X w/options HTCA, HTPA9P, HTCH9E, HTNC1K	P7150, 800 MHZ, scan model with charger, antenna and spare battery	\$1,865.54
MAEX-C81XX w/options MAEX-PKGCA, MAEX-NPA9X, MAEX-NCH9T, MAEX-NNC1K	P5450, 800 MHZ, scan model with charger, antenna and spare battery	\$1,636.14
MAHM-S8VXX w/options MAHM-PA9P, MAHM-CH9E, MAHM-NC1K	P5150, 800 MHZ, scan model with charger, antenna and spare battery	\$1,676.84
P25 DIGITAL CONVENTIONAL MOBILE RA	ADIOS:	
MAMV-FDLXX w/options MAMV-CA, MAMV-NZN7W,	M7200 700/800 MHz, full duplex with Microphone and remote mount	\$3,359.60
MAHG-S8MXX w/ options MAHG-CA, MAHG – CP7W, MAHG-MC7T, MAHG-ZN5X	M7100, 800 MHZ, 35 watt, scan with Microphone and remote mount	\$2,131.94
MAHG-S8MXX w/ options MAHG-CA, MAHG – CP7U, MAHG-MC7T, MAHG-ZN5W	M7100, 800 MHZ, 35 watt, scan with Microphone and remote mount	\$2,017.24
P25 DIGITAL CONVENTIONAL BASE/REP	EATER STATION RADIOS:	
SX8PNX w/options SXSG8H, SXSF3F, SXMN2B, SXMN9C SXMN2C, SXPS9R, SXCL5X, SXCJ5E	MastrIII Station, 800 MHZ, 100 watts with Power supply, rack mount, RX Antenna cable	\$13,114.28
ANALOG CONVENTIONAL PORTABLE RA	ADIOS:	
MAPT-S7XX w/options MAPT-PA9P, MAPT-NC5X, MAPT-CH9E	P7250, 800 MHz, scan model with Charger, antenna and spare battery	\$1,990.60
HT7150S81X w/options HTPA9P, HTCH9E, HTNC1K	P7150, 800 MHZ, scan model with Charger, antenna and spare battery	\$1,606.54
ANALOG CONVENTIONAL MOBILE RADIOS:		
MAMV-FDLXX w/options MAMV-NZN7W, MAMV-CP9E, MAMV-MC7	M7200, 700/800 MHz, full duplex with Microphone and remote mount	\$2,730.60
MAHG-S8MXX w/options MAHG-CP7W, MAHG-MC7T, MAHG-ZN5x	M7100, 800 MHZ, 35 watts, scan with Microphone and remote mount	\$1,872.94
MAHG-S8MXX w/options	M7100, 800 MHZ, 35 watts, scan with	\$1,758.24

Microphone and front mount

MAHG-CP7U, MAHG-MC7T, MAHG-ZN5W

Page 165

MODEL NO. DESCRIPTION WSCA PRICE

ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:

SX8MCX w/options SXMN2B, SXMN9C, SXMN2C, SXPS9R, SXCJ5E MastrIII Station, 800 MHZ, 100 watts with Power supply, rack mount, RX Antenna cable \$8,203.64

INTEROPERABILITY

WSCA Category 4, Interoperable Gateway Devices/IP Base Solutions

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NetworkFirst product information and pricing is available through the WSCA sales contact above

Contractor: Motorola

Note: Correspondence must be addressed to Motorola, C/O Sales Contact.

Contact: Luis R. Alba Contract Legal Robert Gonzales

Issues Contact:

Phone: (425) 896-2356 (714) 238-2030

Mobile: (425) 301-7398

Fax: Fax: 425.896.2301

Email: luisalba@motorola.com Robert.gonzales@motorola.com

Internet address: www.motorola.com

Web catalog address: http://www.motorola.com/governmentandenterprise/northamerica/en-

us/solution.aspx?navigationpath=id 804i

Federal ID No.: 36-1115800

Supplier No.: W13573

Total Contract worth: \$500,000,000.00

Payment address: Customers in participating states will be requested to remit their payments to the

following address:

Motorola, Inc. 13108 Collections Center Drive, Chicago, IL 60693

Payment address: Motorola, Inc. Order placement Motorola, Inc.

For Montana PO Box 404059 address: 18200 NE Union Hill Rd.

Atlanta, GA 30384-4059 Suite 200

Redmond, WA 98052

Customer Service: VACANT

Telephone: 425.896.2356

Fax: 425-896-2301

Ordering procedures:

Credit card acceptance: Visa, MasterCard

Minimum orders:

Delivery time: Please refer to individual category for delivery schedule, which varies by product

and category bid.

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I

Glossary Added to Motorola Phase I Award

This Glossary is incorporated in the WSCA Contract and contains definitions of terms contained therein and will supersede and prevail over any contrary terms or definitions in the contract.

Occurrence. An occurrence, as referenced in Section II, Paragraph 38, Limitation of Liability" means only a single sales transaction, including both a purchase of equipment only and a purchase of a system. It does not mean or refer to a claim by a purchaser, end user, or any other entity.

<u>Total Liability</u>. Contractor's total liability under the contract shall not exceed the following amounts:

- 1. <u>FOR SYSTEM PURCHASES</u>. THE GREATER OF \$10,000,000 OR THE CONTRACT PRICE OF THE SYSTEM.
- 2. . FOR EQUIPMENT ONLY PURCHASES. THE LIMITATION OF LIABILITY PROVISION SHALL APPLY NOTWITHSTANDING ANY CONTRARY PROVISION IN THIS AGREEMENT OR ANY ATTACHMENTS, ADDENDUMS, OR EXHIBITS. EXCEPT FOR PERSONAL INJURY OR DEATH, CONTRACTOR'S LIABILITY ARISING FROM THIS CONTRACT WILL BE LIMITED TO THE DIRECT DAMAGES RECOVERABLE UNDER LAW; AND LIMITED TO A TOTAL OF \$10,000,000 (TEN MILLION DOLLARS) OF LIABILITY WITHIN EACH PARTICIPATING STATE, OR THE TOTAL MOTOROLA WSCA CONTRACT 02702 YEARLY (JAN. TO DEC.) SALES IN THE YEAR IN WHICH THE LIABILITY OCCURRED, WHICHEVER IS GREATER. EACH STATE WITH WHOM MOTOROLA HAS SIGNED A PARTICIPATING ADDENDUM IS IDENTIFIED AS A PARTICIPATING STATE.

<u>DIRECT DAMAGES.</u> DIRECT DAMAGES, AS REFERENCED IN SECTION II, PARAGRAPH 38, LIMITATION OF LIABILITY MEANS ACTUAL DIRECT DAMAGES INCURRED AND DOES NOT INCLUDE SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

WSCA states. PRICING AND ADJUSTMENTS

Unless otherwise stipulated, all bids must include unit prices and extensions where applicable and be otherwise in the format requested. This will be the baseline pricing to determine offerors score and baseline price level. The State of Washington and participating WSCA states are also looking for additional volume based pricing for consideration. The volume discount program offered will be evaluated using price breaks identified in the Price Sheets per category. If no price break are given by a Proposer(s), then the highest discount rate offer by the Proposer(s), will be used to compare that proposal with Proposer's that offer a volume discount program.

All bid pricing is to be FOB Destination, freight prepaid and included, for any destination within the State of Washington and participating WSCA states, unless stipulated differently in the Communication Equipment Category specification and price sheet section.

Pricing shall remain firm and fixed for the initial 12-months of the contract, unless defined and approved in a Participating Addendum

Adjustments in pricing will be considered after firm fixed price period on a pass through basis only. A minimum of <u>60</u> calendar days advance written notice of price increase is required which is to be accompanied by sufficient documentation to justify the requested increase. Documentation must be based on United States published indices such as the Producer Price Index. Acceptance will be at the discretion of the State Procurement Officer and shall not produce a higher profit margin than that established on the original contract pricing. Approved price adjustments shall remain unchanged for at least <u>365</u> calendar days thereafter.

During the term of this contract, should the contractor enter into pricing agreements with other customers providing greater benefits or lower pricing, contractor shall immediately amend the state contract to provide similar pricing to the state if the contract with other customers offers similar usage quantities, and similar conditions impacting pricing. Contractor shall immediately notify the state of any such contracts entered into by contractor. When the state is comparing different lower contract pricing the management fee will be deducted from the WSCA contract.

This provision applies only within WSCA PARTICIPATING STATES (as defined in this document, above) and shall not apply to existing contracts, system packages, or <u>one time equipment</u> purchases, services, or international sales. For purposes of this section, the definition of 'customers' shall not include Contractor's dealers, distributors and resellers, or sales to federal government.

TECHNICAL ADVANCES/UPGRADES

During the service life of the equipment, the contractor agrees to install, at no additional cost to the end user, all manufacturers' required retrofit upgrades within 90 days of the date the upgrade is introduced by the manufacturer. Required retrofits are all retrofits that are required to keep the equipment operating and functioning as intended at the time of purchase. "Service Life" as used in this section shall be five years from final inspection and acceptance by the purchaser. This does not including periodic software releases which are intended to offer new features or enhancements not available at the time of original purchase.

NEW SYSTEM SOFTWARE AND FIRMWARE UPDATE

Provide Required Firmware, Software updates at no cost for 5 years after last unit being purchased from this RFP. Required firmware and software updates are all updates that are required to keep the equipment operating and functioning as intended at the time of purchase. *Manufacturers are not responsible for update installation costs. Proposer's shall submit a copy* of their software licensing agreement with their proposal. This does not including periodic software releases which are intended to offer new features or enhancements not available at the time of original purchase.

SOFTWARE LICENSE:

Customer and any Purchasing Entity or End User purchasing from this Agreement hereby accept and agree to abide by all of the terms and restrictions of the Motorola Software License Agreement attached to Motorola's bid and incorporated into this agreement, when purchasing or using any Motorola Software or firmware. Any Non-Motorola Software and Open Source Software is licensed to Customer in accordance with the standard license, terms, and restrictions of the copyright owner on the Effective Date.

SYSTEM SALES:

If a Purchasing Entity intends to purchase a system using pricing from the WSCA contract, Motorola will prepare a proposal that includes the technical, contractual, and implementation documents that are appropriate for that system. Any system sale will be subject to the specifications of the technical and implementation documents and to the terms of the communications system agreement and its exhibits or other applicable contract documents.

SUPPORT SERVICES, MAINTENANCE SERVICES, AND PROFESSIONAL SERVICES:

If a Purchasing Entity intends to purchase services from Motorola, the sale of services will be subject to the terms of the appropriate Motorola maintenance, professional services, or other standard agreement appropriate to the type of services being sold, together with the technical and implementation exhibits applicable to the services.

WARRANTY(IES)

Proposer(s) will submit a copy of every warranty as an attachment to bid and items delivered under this contract will also be accompanied by a copy of the applicable warranties. Unless otherwise specified, the full parts and labor warranty period shall be for a minimum period of one (1) year after receipt and acceptance of materials or equipment by the Purchaser. All warranties supplied by the manufacturer shall be consistent with the provisions of the UCC, chapter 62A RCW unless otherwise specified in part 3, equipment Specifications. All materials or equipment provided shall be new, or refurbished and manufacturer certified, of the latest model or design and of recent manufacture. All tower parts must be new and of the latest design.

Successful contractor(s) shall provide product support (required to keep equipment operating and functioning as intended at the time of purchase) for 7–5 years after last unit being purchased from this RFP.

CONTRACTOR DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

In the event of conflict between contract terms and conditions and any warranty submitted by the contractor, to afford the state maximum benefits, the contract terms and conditions shall prevail.

WSCA and Motorola agree as follows:

Section 9 of Part III, "Special Terms and Conditions," of WSCA RFP No. 02702 is amended by inserting the words "parts, or accessories" in the second-to-last sentence of the section. As amended the sentence now reads:

This provision applies only within WSCA Participating States (as defined in the document above) and shall not apply to existing contracts, system packages, one time equipment purchases, services, international sales, parts, or accessories.

Contract users may purchase accessories for any listed Motorola radio subscriber unit. Available accessories are listed on the Motorola Electronic Catalog pages associated with each subscriber unit that is available through the contract.

If accessories listed on the Electronic Catalog pages are purchased at the time of purchase of a radio unit, the discount level associated with the radio will apply to the purchased accessories.

If accessories are purchased on a stand-alone basis from the Electronic Catalog pages available on the contract, a 20% discount shall apply to any accessory purchase.

Amendments Effective July 1, 2006:

Effective July 1, 2006, Motorola has reduced the prices on all applicable products available through the WSCA Contract by three percent (3%). This price reduction is reflected in the WSCA RFP DISCOUNT MATRIX dated July 1, 2006, attached below and in the list of Representative Radio Models, attached below. No further volume discounts shall apply to Motorola products available on the WSCA Public Safety Radio Contract. Any reference to "volume discount" or "cumulative discount" is struck.

When calculating the price of a product purchased through the WSCA contract, Motorola and WSCA contract users shall use Motorola's then-current price book and apply the discount level indicated in the WSCA RFP DISCOUNT MATRIX dated July 1, 2006, which is attached below. In order to conform with the parties' intent to replace the pricing quoted by Motorola in its 2003 RFP 02802 response and ensuing contract with Motorola's current pricing, which shall be updated at least annually, any reference in WSCA RFP or Contract 02702, as amended, to the pricing quoted by Motorola in its 2003 RFP Response shall be replaced with an appropriate reference to Motorola's current price list.

Effective, July 1, 2006, the general WSCA administrative fee for purchases made from the WSCA Public Safety Radio Contract shall be lowered from one and one-half percent (1.5%) to one-half percent (.5%). Administrative fees charged by Participating States shall not be affected by this reduction. The total administrative fee charged by the State of Washington shall be one and one-half percent (1.5%), which includes both the WSCA administrative fee and the State of Washington administrative fee.

MOTOROLA WESTERN DIVISION SALES OFFICES

Boise, Idaho

11548 W. Rader Dr. Boise, ID 83713 208-377-2080 fax 208-377-2085

WA08 - Redmond, WA OR02 - Lake Oswego, OR AZ43 - Phoenix, AZ 18200 NE Union Hill Rd. 4900 S.W. Meadows Rd, #475 2900 South Diablo Wy. Suite 200 Redmond, WA 98052 Lake Oswego, OR 97035 Tempe, AZ 85282 No main phone number. 425-896-2340 602 271-7500 fax 425 896-2302 fax 503 697-4670 fax 602 438-1608 CA25 - San Diego, CA (Div HQ) CO01 - Engelwood, CO TX48 Dallas, TX 6420 Sequence Drive 9800 Mount Pyramid Ct. Suite 200 2410 Luna Road, Ste 132 San Diego, CA 92121 Englewood, CO 80112 Carrollton, TX 75006 800 445-3620 toll-free 303 689-2800 972 277-4600 or 800 635-0200 858 578-2222 direct fax 303 689-2900 fax 972 277-4611 TX09 - Houston, TX CA08 - Los Angeles, CA TX32 - Austin, TX 1140 Cypress Station Suite 300 312 E. 1st. Street, Suite 520 7700 W. Parmer Lane Houston, TX 77090 Los Angeles, CA 90012 Bldg., B-PL34 281 537-3600 Austin, TX 78729 No main phone number. fax 281 537-3617 fax 213 628-2470 512 996-6974 CA78 - Motorola FSO California CA18 - Van Nuys, CA CA36 - Irvine, CA 7720 Sepulveda Blvd., Suite B 10061 Riverside Dr., PMB 1046 1900 Main Street, Suite 300 Van Nuys, CA 92450 Toluca Lake, CA 91602 Irvine, CA 92614 818 786-1092 818 843-3068 949 399-4000 fax 818 786-1294 fax 949 437-4240 fax (same as above) CA57 - Irvine, CA (warehouse) NM01 - Albuquerque, NM CA69 - Mountain View, CA 17835 Skypark Circle, Suite C 2501 San Pedro N.E., Suite 202 805 E. Middlefield Rd Irvine, CA 92614 Albuquerque, NM 87110 Mountain View, CA 94043 949 442-1644 505 875-1999 650 318-3200 fax 949 474-0196 fax 505 875-1888 fax 650-318-3310 CA67 - Los Angeles, CA Las Vegas, Nevada Shawnee, OK PO Box 98098 725 S Figueroa Ave, Suite 1870 2309 Troon Circle Las Vegas, Nevada 89193 Los Angeles, CA 90017 Shawnee, OK 74801 775-853-7862 213 362-6726 405-395-9448 fax 775-853-0924 fax 213 627-3379 fax 405-878-6841 Layton, Utah Billings, Montana Anchorage, Alaska PMB#194 4603 Alkali Creek Road PO Box 230882 2146 North Main Street, Suite 530 Billings, MT 59106 Anchorage, AK 99532 Layton, Utah 84051 406-245-3309 907-261-5170 801-571-7649 fax 406-245-1567 fax 907-346-4303 fax 801-571-7258

MOTOROLA REPRESENTATIVE WSCA CONTRACT RADIO MODELS

Revised 10/20/06

WSCA

The following Motorola radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact Motorola for other versions & frequency bands of each series of radio model. The WSCA RFP required Manufacturer price pages for the complete line of Motorola radios available on the WSCA contract are on file with WSCA Purchasing. The representative prices listed will be higher in states that charge an administrative fee.

The various types of Motorola radios are listed by frequency band first, then by radio category:

MODEL NO.	DESCRIPTION	CONTRACT PRICE
VHF FREQUENCY BAND (136-	-174 MHZ):	
P25 DIGITAL TRUNKED PORTABLE RADIO	OS:	
H18KEF9PW6_N w/options: Q806,H38,Q361,H14,H301, NNTN4435, NTN1667	XTS5000, VHF, 6 watt, 512 channel, model 2, with charger & spare battery	\$3,735.82
H46KDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS2500, VHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,995.53
H66KDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS1500, VHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,451.40
P25 DIGITAL TRUNKED MOBILE RADIOS:		
M20KTS9PW1_N w/options: G806,G51,G361,G114,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 110 watt, 512 channel, model W5, remote mount	\$4,119.68
M20KSS9PW1_N w/options: G806,G51,G361,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 50 watt, 512 channel, model W5, remote mount	\$3,753.09
M20KSS9PW1_N w/options: G806,G51,G361,G89,G66,G79,G94, W22,B18	XTL5000, VHF, 50 watt, 512 channel, model W5, front mount	\$3,533.29
M21KTM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, VHF, 110 watt, 255 channel, remote mount	\$3,696.56
M21KSM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, VHF, 50 watt, 255 channel, remote mount	\$3,286.56

Current Contract Information	Contract No. 02702 Motorola	
M21KSM9PW1_N w/options: G806,G51,G361,G89,G66, G442,G444,W22,B18	XTL2500, VHF, 50 watt, 255 channel, front mount	\$3,145.52
M28KSS9PW1_N w/options: G788,G89	XTL1500, VHF, 50 watt, 48 channel, front mount	\$1,828.60
P25 DIGITAL CONVENTIONAL PORTABLE	E RADIOS:	
H18KEF9PW6_N w/options:	XTS5000, VHF, 6 watt, 512 channel,	\$2,950.82
Q806,H35,H14,H301,NNTN4435,NTN166 7	model 2, with charger & spare battery	
H46KDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, VHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,543.50
H66KDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS1500, VHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,134.88
P25 DIGITAL CONVENTIONAL MOBILE RA	ADIOS:	
M20KTS9PW1_N w/options: G806,G48,G114,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 110 watt, 512 channel, model W5, remote mount	\$3,334.68
M20KSS9PW1_N w/options: G806,G48,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, VHF, 50 watt, 512 channel, model W5, remote mount	\$2,968.09
M21KTM9PW1_N w/options: G806,G48,G89,G67, G442,G444,W22,B18	XTL2500, VHF, 110 watt, 255 channel, remote mount	\$2,876.56
M21KSM9PW1_N w/options: G806,G48,G89,G66, G442,G444,W22,B18	XTL2500, VHF, 50 watt, 255 channel, front mount	\$2,325.52
M28KSS9PW1_N w/options:	XTL1500, VHF, 50 watt,	\$1,418.60

Page 173

\$11,759.44

P25 DIGITAL CONVENTIONAL BASE/REPEATER STATION RADIOS:		
T5365 w/options:	QUANTAR, VHF, 125 watt, 16 channel	

G790,G89

X530,X806_D,X580,X432		
T5365 w/options: X330.X806 D.X580.X432	QUANTAR, VHF, 25 watt, 16 channel	\$10,827.74

48 channel, front mount

ANALOG CONVENTIONAL PORTABLE RADIOS:

H67KDC9PW5_N w/options: Q833,H301,NTN9815,NTN1667	MT1500, VHF, 5 watt, 48 channel, with charger & spare battery MT1500 is factory upgradeable to P25 dig.	\$993.30
AAH79KDC9PW5_N w/options: H129,H301CE,NTN9858	PR1500, VHF, 5 watt, 32 channel, with charger & spare battery PR1500 is factory upgradeable to P25 dig.	\$913.50
AAH25KDH9AA6_N w/options: H301,HNN9008_R	HT1250, VHF, 5 watt, 128 channel, with charger & spare battery	\$711.10
AAH25KDC9AA2_N w/options: H301,HNN9008_R	HT750, VHF, 5 watt, 4 channel, with charger & spare battery	\$542.10
AAH50KDC9AA1_N w/options: NNTN4851	CP200, VHF, 5 watt, 4 channel, with charger & spare battery	\$394.40
ANALOG CONVENTIONAL MOBILE RAD	DIOS:	
AAM79KTD9PW5_N	PM1500, VHF, 110 watt, 255 channel, remote mount	\$1,260.00
AAM25KKD9AA2_N	CDM1250, VHF, 45 watt, 64 channel, front mount	\$534.24
ANALOG CONVENTIONAL BASE/REPEA	ATER STATION RADIOS:	
T5365 w/options: X530,X597_A,X580,X432	QUANTAR, VHF, 125 watt, 16 channel	\$9,834.44
T5544 w/options: X330,X597,X580,X436,X153	MTR2000, VHF, 40 watt, 32 channel	\$3,699.50
P25 MIGRATION PLAN GATEWAY SOLUTIONS:		
To be determined for each application	TYPICAL MEDIUM SYSTEM, PER RFP	\$2,488,183.78
	SPECS, AS BID	. , ., .,
To be determined for each application	TYPICAL SMALL SYSTEM, PER RFP SPECS, AS BID	\$1,785,195.50
To be determined for each application	TYPICAL ALTERNATE SMALL SYSTEM,	\$244,473.89

AS BID FOR PHASE 1

MOTOROLA REPRESENTATIVE WSCA CONTRACT RADIO MODELS

Revised 10/20/06

WSCA

The following Motorola radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact Motorola for other versions & frequency bands of each series of radio model. The WSCA RFP required Manufacturer price pages for the complete line of Motorola radios available on the WSCA contract are on file with WSCA Purchasing. The representative prices listed will be higher in states that charge an administrative fee.

The various types of Motorola radios are listed by frequency band first, then by radio category:

MODEL NO.	DESCRIPTION	CONTRACT PRICE
UHF FREQUENCY BAND (450	-470 MHZ):	
P25 DIGITAL TRUNKED PORTABLE RADI	OS:	
H18SDF9PW6_N w/options: Q806,H38,Q361,H14,H301, NNTN4435, NTN1667	XTS5000, UHF, 5 watt, 512 channel, model 2, with charger & spare battery	\$3,735.82
H46SDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS2500, UHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,995.53
H66SDC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS1500, UHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,451.40
P25 DIGITAL TRUNKED MOBILE RADIOS:		
M20QTS9PW1_N w/options: G806,G51,G361,G114,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 100 watt, 512 channel, model W5, remote mount	\$4,119.68
M20QSS9PW1_N w/options: G806,G51,G361,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 40 watt, 512 channel, model W5, remote mount	\$3,753.09
M20QSS9PW1_N w/options: G806,G51,G361,G89,G66,G79,G94, W22,B18	XTL5000, UHF, 40 watt, 512 channel, model W5, front mount	\$3,533.29
M21QTM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, UHF, 100 watt, 255 channel, remote mount	\$3,696.56
M21SSM9PW1_N w/options: G806,G51,G361,G89,G67,	XTL2500, UHF, 40 watt, 255 channel, remote mount	\$3,286.56

Current Contract	Information
Current Contract	minimanon

Page 176

G442,G444,W22,B18

M21SSM9PW1_N w/options: G806,G51,G361,G89,G66, G442,G444,W22,B18	XTL2500, UHF, 40 watt, 255 channel, front mount	\$3,145.52		
M28SSS9PW1_N w/options: G788,G89	XTL1500, UHF, 45 watt, 48 channel, front mount	\$1,828.60		
P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:				
H18SDF9PW6_N w/options: Q806,H35,H14,H301,NNTN4435,NTN166 7	XTS5000, UHF, 5 watt, 512 channel,	\$2,950.82		
	model 2, with charger & spare battery			
H46SDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, UHF, 5 watt, 48 channel, model 1, with charger & spare battery	\$1,543.50		
H66SDC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS1500, UHF, 5 watt, 16 channel, model 1, with charger & spare battery	\$1,134.88		
P25 DIGITAL CONVENTIONAL MOBILE RADIOS:				
M20QTS9PW1_N w/options: G806,G48,G114,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 100 watt, 512 channel, model W5, remote mount	\$3,334.68		
M20QSS9PW1_N w/options: G806,G48,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, UHF, 40 watt, 512 channel, model W5, remote mount	\$2,968.09		
M21QTM9PW1_N w/options: G806,G48,G89,G67, G442,G444,W22,B18	XTL2500, UHF, 100 watt, 255 channel, remote mount	\$2,876.56		
M21SSM9PW1_N w/options: G806,G48,G89,G66, G442,G444,W22,B18	XTL2500, UHF, 40 watt, 255 channel, front mount	\$2,325.52		
M28SSS9PW1_N w/options: G790,G89	XTL1500, UHF, 45 watt, 48 channel, front mount	\$1,418.60		
P25 DIGITAL CONVENTIONAL BASE/REPEATER STATION RADIOS:				
T5365 w/options: X640,X806_D,X580,X432	QUANTAR, UHF, 110 watt, 16 channel	\$12,852.07		
T5365 w/options: X240,X806_D,X580,X432	QUANTAR, UHF, 25 watt, 16 channel	\$11,420.64		

ANALOG CONVENTIONAL PORTABLE RADIOS:

H67SDC9PW5_N w/options: Q833,H301,NTN9815,NTN1667	MT1500, UHF, 5 watt, 48 channel, with charger & spare battery MT1500 is factory upgradeable to P25 dig.	\$993.30		
AAH79SDC9PW5_N w/options: H301CE,NTN9815	PR1500, UHF, 5 watt, 32 channel, with charger & spare battery PR1500 is factory upgradeable to P25 dig.	\$948.50		
AAH25SDH9AA6_N w/options: H301,HNN9008_R	HT1250, UHF, 4 watt, 128 channel, with charger & spare battery	\$743.60		
AAH25SDC9AA2_N w/options: H301,HNN9008_R	HT750, UHF, 4 watt, 4 channel, with charger & spare battery	\$574.60		
AAH50RDC9AA1_N w/options: NNTN4851	CP200, UHF, 4 watt, 4 channel, with charger & spare battery	\$422.40		
ANALOG CONVENTIONAL MOBILE RADIOS:				
AAM79QTD9PW5_N	PM1500, UHF, 110 watt, 255 channel, remote mount	\$1,330.00		
AAM25SKD9PW2_N	CDM1250, UHF, 40 watt, 64 channel, front mount	\$581.76		
ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:				
T5365 w/options: X640,X597_A,X580,X432	QUANTAR, UHF, 100 watt, 16 channel	\$10,927.07		
T5544 w/options: X340,X597,X580,X436,X153	MTR2000, UHF, 40 watt, 32 channel	\$4,669.00		
P25 MIGRATION PLAN GATEWAY SOLUTIONS:				
To be determined for each application	TYPICAL MEDIUM SYSTEM, PER RFP SPECS, AS BID	\$2,488,183.78		
To be determined for each application	TYPICAL SMALL SYSTEM, PER RFP SPECS, AS BID	\$1,785,195.50		
To be determined for each application	TYPICAL ALTERNATE SMALL SYSTEM, AS BID FOR PHASE 1	\$244,473.89		

MOTOROLA REPRESENTATIVE WSCA CONTRACT RADIO MODELS

Revised 10/20/06

WSCA

The following Motorola radio models are representative examples of the radios available on the WSCA contract. Contract users are requested to contact Motorola for other versions & frequency bands of each series of radio model. The WSCA RFP required Manufacturer price pages for the complete line of Motorola radios available on the WSCA contract are on file with WSCA Purchasing. The representative prices listed will be higher in states that charge an administrative fee.

The various types of Motorola radios are listed by frequency band first, then by radio category:

MODEL NO.	DESCRIPTION	CONTRACT PRICE		
800 MHZ FREQUENCY BAND (806-870 MHZ):				
P25 DIGITAL TRUNKED PORTABLE RADIOS:				
H18UCF9PW6_N w/options: Q806,H38,Q361,H14,H301, HNN9031, NTN1667	XTS5000, 700/800 MHZ, 3 watt, 512 channel, model 2, with charger & spare battery	\$3,721.69		
H46UCC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS2500, 700/800 MHZ, 3 watt, 48 channel, model 1, with charger & spare battery	\$1,995.53		
H66UCC9PW5_N w/options: Q574,H301,NTN9815,NTN1667	XTS1500, 700/800 MHZ, 3 watt, 16 channel, model 1, with charger & spare battery	\$1,451.40		
P25 DIGITAL TRUNKED MOBILE RADIOS:				
M20URS9PW1_N w/options: G806,G51,G361,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, 700/800 MHZ, 35 watt, 512 channel, model W5, remote mount	\$3,753.09		
M20URS9PW1_N w/options: G806,G51,G361,G89,G66,G79,G94, W22,B18	XTL5000, 700/800 MHZ, 35 watt, 512 channel, model W5, front mount	\$3,533.29		
M21URM9PW1_N w/options: G806,G51,G361,G89,G67, G442,G444,W22,B18	XTL2500, 700/800 MHZ, 35 watt, 255 channel, remote mount	\$3,286.56		
M21URM9PW1_N w/options: G806,G51,G361,G89,G66, G442,G444,W22,B18	XTL2500, 700/800 MHZ, 35 watt, 255 channel, front mount	\$3,145.52		
M28URS9PW1_N w/options: G788,G89	XTL1500, 700/800 MHZ, 35 watt, 48 channel, front mount	\$1,828.60		

Contract No. 02702 Motorola

P25 DIGITAL CONVENTIONAL PORTABLE RADIOS:

H18UCF9PW6_N w/options: Q806,H35,H14,H301, HNN9031, NTN1667	XTS5000, 700/800 MHZ, 3 watt, 512 channel, model 2, with charger & spare battery	\$2,936.69				
H46UCF9PW6_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, 700/800 MHZ, 3 watt, 512 channel, model 2, with charger & spare battery	\$2,058.00				
H46UCC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS2500, 700/800 MHZ, 3 watt, 48 channel, model 1, with charger & spare battery	\$1,543.50				
H66UCC9PW5_N w/options: Q811,H301,NTN9815,NTN1667	XTS1500, 700/800 MHZ, 3 watt, 16 channel, model 1, with charger & spare battery	\$1,134.88				
P25 DIGITAL CONVENTIONAL MOBILE F	RADIOS:					
M20URS9PW1_N w/options: G806,G48,G114,W81,G89,G67, G79,G94,W22,B18	XTL5000, 700/800 MHZ, 35 watt, 512 channel, model W5, remote mount	\$2,968.09				
M21URM9PW1_N w/options: G806,G48,G89,G66, G442,G444,W22,B18	XTL2500, 700/800 MHZ, 35 watt, 255 channel, front mount	\$2,325.52				
M28URS9PW1_N w/options: G790,G89	XTL1500, 700/800 MHZ, 35 watt, 48 channel, front mount	\$1,418.60				
P25 DIGITAL CONVENTIONAL BASE/RE	PEATER STATION RADIOS:					
T5365 w/options: X750,X806_D,X580,X432	QUANTAR, 800 MHZ, 100 watt, 16 channel	\$13,389.53				
T5365 w/options: X250,X806_D,X580,X432	QUANTAR, 800 MHZ, 20 watt, 16 channel	\$11,337.48				
ANALOG CONVENTIONAL PORTABLE RADIOS:						
H67UCC9PW5_N w/options: Q833,H301,NTN9815,NTN1667	MT1500, 800 MHZ, 3 watt, 48 channel, with charger & spare battery MT1500 is factory upgradeable to P25 dig.	\$993.30				

ANALOG CONVENTIONAL MOBILE RADIOS:

\$1,418.60

Contract No. 02702 Motorola

M28URS9PW1_N w/options: XTL1500,

XTL1500, 700/800 MHZ, 35 watt,

G790,G89 48 channel, front mount

ANALOG CONVENTIONAL BASE/REPEATER STATION RADIOS:

T5365 w/options: QUANTAR, 800 MHZ, 100 watt, 16 channel \$11,464.53

X750,X597_A,X580,X432

T5544 w/options: MTR2000, 800 MHZ, 75 watt, 32 channel \$5,579.00

X450,X597,X580,X436,X153

P25 MIGRATION PLAN GATEWAY SOLUTIONS:

To be determined for each application TYPICAL MEDIUM SYSTEM, PER RFP \$2,488,183.78

SPECS, AS BID

To be determined for each application TYPICAL SMALL SYSTEM, PER RFP \$1,785,195.50

SPECS, AS BID

To be determined for each application TYPICAL ALTERNATE SMALL SYSTEM, \$244,473.89

AS BID FOR PHASE 1

WSCA RFP DISCOUNT MATRIX	REVISED 5/18/07		
RADIO MODEL SERIES (REFER TO MANUF. PRICE PAGES):	DISCOUNT %	CALIFORNIA , OREGON DISCOUNT %	OKLAHOMA, KANSAS DISCOUNT %
P25 DIGITAL MOBILE/DESKTOP RADIOS:			
XTL5000 MOBILE	21.5%	20.5%	21%
XTL5000 HIGH PERFORMANCE MOBILE DATA MODEMS	10%	9%	9.5%
XTL2500 MOBILE	18%	17%	17.5%
XTL1500 MOBILE	18%	17%	17.5%
P25 DIGITAL PORTABLE RADIOS:			
ASTRO XTS5000	21.5%	20.5%	21%
ASTRO XTS2500	26.5%	25.5%	26%
ASTRO XTS1500	18%	17%	17.5%
PDR3500 PORTABLE REPEATER	8.5%	7.5%	8%
ANALOG MOBILE/DESKTOP RADIOS:			

Motorola

PM1500 (P25 UPGRADEABLE)	30%	29%	29.5%		
CDM SERIES (750, 1250, 1550, 1550LS+)	28%	27%	27	.5%	
CM200, CM300	15%	14%	14.	.5%	
PM400	15%	14%	14	.5%	
ANALOG PORTABLE RADIOS:					
HT1250, HT1250LS+, HT1550XLS	35%	34%	34	.5%	
HT750	35%	34%	34	.5%	
EX500, EX600XLS	20%	19%	19.	.5%	
CP100, CP150, CP200	20%	19%	19.	.5%	
MT1500 (P25 UPGRADEABLE)	23%	22%	22	.5%	
PR1500 (P25 UPGRADEABLE)	30%	29%	29	.5%	
PR860	20%	19%		.5%	
PR400	15%	14%	14	.5%	
INFRASTRUCTURE / FIXED EQUIPMENT / OTHER:					
QUANTAR BASE/REPEATER STATIONS	23%	22%	22	.5%	
MTR2000 BASE/REPEATER STATIONS	30%	29%	29.	.5%	
DIU-3000 DIGITAL INTERFACE UNITS	15%	14%	14.5%		
ASTRO-TAC 3000 VOTING SYSTEM	15%	14%	14	.5%	
SPECTRA-TAC VOTING SYSTEM	15%	14%	14	.5%	
QUANTAR VOTING RECEIVERS	15%	14%	14	.5%	
GOLD ELITE CONSOLES (Gateway)	18.5%	17.5%	18	3%	
TRUNKED CONTROLLERS (Gateway)	18.5%	17.5%	18	3%	
Trident PassPort Trunking Infrastructure	18.5%	17.5%	18	3%	
Trident LTR Trunking Infrastructure	18.5%	17.5%	18	3%	
MOTOBRIDGE (Gateway)	10%	9%	9.	5%	
STR3000 SIMULCAST / DATA BASE STATIONS	15%	14%	14	.5%	
MCC5500 / MCC7500 CONSOLES	15%	14%	14.	.5%	
CANOPY	15%	14%	14	.5%	
PTP / POINT TO POINT WIRELESS BROADBAND NETWORK	15%	14%	14.	.5%	
POWERLINE MU / IN BUILDING BROADBAND DISTRIBUTION	15%	14%	14.	.5%	
HOTZONE DUO	15%	14%	14	.5%	
RAD / MULTIPLEXERS	10%	9%	9.	5%	
EWLAN INFR & ACCESS POINTS	40%	39%	39	.5%	
MCC1000/2000/2500, COMMAND STAR LITE CONSOLES	10%	9%			
MC3000 DIGITAL DESKTOP CONSOLES	10%	9%			
MINITOR RECEIVERS	28%	27%	27.5%		
STANDALONE ACCESSORIES ORDERED WITHOUT RADIOS	20%	19%	19	.5%	
Support Services	\$168.75 per hr	\$170.43 /hr	\$169.59	/hr	
Installation Services	\$168.75 per hr	\$170.43 /hr	\$169.59	/hr	
Repair Services		\$168.75/hr	\$170.4 3 /hr	\$169.5 9 /hr	

CONTRACTOR INFORMATION

Contractor: Northern Airborne Technology Ltd

Page number

Contact: Ray Lewis, VP Business Alternate Contact: Gary Cooper, Contracts

Development Manager

1925 Kirschner Road, Kelowna, BC Canada,

V1Y 4N7

gcooper@natech.com

Phone: 250-763-2232 (250) 763-2232;

(888) 763-2232 ext 295

Fax: 250-762-3374 (250) 762-3374 fax

Email: rayl@natech.com

Internet address: www.northernairborne.com

Web catalog address:

Federal ID No.:

Supplier No.: W6476

Contract Worth \$

Payment address: Edmo distributors, Inc. Order placement Contact Edmo

12830 E. Mirabeau address: Distributors, Inc.
Parkway Ted Augustine
Spokane WA. 99216 1 800 828-0623 T(oll

Free Fax)

Customer Service: Joel Johnston (EDMO Distributors, Inc)

Telephone: 1 800 235-3300 509-535-8280

Fax: 800 828-0623

Ordering procedures: All orders must include the term "WSCA CONTRACT ORDER"

prominently shown and be direct to the ATTN: Ted Augustine via EDMO

Toll Free Fax at (800)828-0623 or USPS mail.

Credit card acceptance: Visa – MC

Minimum orders:

Delivery time: 60 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category 2, FM Aircraft Radios

Equipment Line items

Link to bid Specifications http://www.ga.wa.gov/pca/bids/02702-Phase2-Category2.doc

Link to Price Sheets

Awarded Phase(s) Phase I & II

Contract No. 02702 Northern Airborne Technology Ltd – Phase II

SPECIFICATIONS

Description

One panel mounted VHF-FM Aeronautical Transceiver (FM-1)

Two-panel mounted VHF-FM Aeronautical Transceiver (FM-1 and FM-2).

Transceiver shall provide operator selection of both wide-band (25 kHz bandwidth/5 kHz modulation) and narrow-band (12.5 kHz bandwidth/2.5 kHz modulation) operation by channel for MAIN and GURARD operation.

Transceiver shall meet the specifications provided in Section J, FS/OAS A-19, AERONUTICAL VHF-FM RADIO TRANSCEIVER SPECIFICATIONS and Section J, FS/OAS A-24; AVIONICS OPERATIONAL TEST PROCEDURES.

Transceiver's operational controls shall be mounted in a location that is convenient to both pilot and copilot/observer.

Aircraft having two or more aeronautical VHF-FM radio transceivers need only have a GUARD receiver in the first transceiver (FM-1) unless one is Project 25 digital compliant and the other is not.

The radio MUST have a Supplemental Type Certification (STC) OR have FAA approval to be installed in FAA certified Part 91 aircraft.

The radio shall be capable or operating on up to 255 channels.

The 255 channels shall be any quantity mixture of APCO 25 digital trunked simulcast talk groups and separate conventional mode RF frequencies. It is acceptable for channel capability to be reduced for analog features.

Contract No. 02702 Northern Airborne Technology Ltd – Phase II

PRICE SHEETS

FM Band Aircraft Radio

Req.	Comm.	Description	Unit	Unit Price
Item 1.	5820	One Panel Mounted VHF – FM Aeronautical	EA	\$10,233.00
		Transceiver (FM-1) (One per aircraft) Product Bid State:		
		Mfg.: Northern Airborne Technology		
		Model: NPX136D-070		
		(with guard receiver)		
2.	5820	Two Panel Mounted VHF – FM Aeronautical Transceiver (FM-1 and FM-2) (Two per Aircraft)	EA	\$10,233.00
		Product Bid State:		
		Mfg.: Northern Airborne Technology		
		Model: NPX136D-070		
		(with guard receiver)		
3.	5820	VHF-FM (in Two panel Installation)	EA	\$8,343.00
		Product Bid State:		
		Mfg.: Northern Airborne Technology		
		Model: NPX136D-000		
		(without guard)		

The vendor shall include pricing for all STC or FAA approved optional configurations of transceivers, control head display, aircraft interconnections, control cables, power cables, installation/mounding hardware, programming devices and/or software, and other approved available items not specifically listed here.

Northern Airborne Technology Ltd - Phase II

VOLUME DISCOUNT PROGRAM - PHASE 2 ALL CATEGORIES

The volume discount will be cumulative and over the term of the contract. (Initial Term of Three [3] Years)

Additional Discount off	Cumulative Total	Cumulative Total
Net Contract Unit Price	Sales from:	Sales to:
5 %	\$ 5,000,000	\$ 9,999,999
5 %	\$ 10,000,000	\$ 14,999,999
5 %	\$ 15,000,000	\$ 19,999,999
5 %	\$ 20,000,000	\$ 29,999,999
5 %	\$ 30,000,000	\$ 39,999,999
5 %	\$ 40,000,000	\$ 49,999,999
5 %	\$ 50,000,000	\$ 59,999,999
5 %	\$ 60,000,000	\$ 69,999,999
5 %	\$ 70,000,000	\$ 79,999,999
5 %	\$ 80,000,000	\$ 89,999,999
5 %	\$ 90,000,000	\$ 99,999,999
5 %	\$100,000,000	\$ 100,000,000+

Contract No. 02702c.doc

Radian Communication Services IncCONTRACTOR INFORMATION

Contractor: Radian Communication Services, Inc

Page number http://www.ga.wa.gov/pca/bids/02702-Phase2-Category6.doc

Contact: Katie Schoettmer, Alternate Contact: Craig Ahlstrom

Business Analyst Rohn Products, LLC 6718 West Plank Road

Peroria, IL 61604

Phone: (309) 633-6828 309 633-5607 Fax: (309) 633-6808 309 633-2693 Cell Phone 309 453-5022

Email: <u>Katie.schoettmer@radiancorp.com</u>

Alternate Contact:

Phone: Fax: Email:

Internet address: http://www.radiancorp.com/
Web catalog address: http://www.radiancorp.com/

Federal ID No.: 51-0273912 Supplier No.: W3953

Total Contract worth: \$500,000,000.00

Payment address: Radian Order placement Radian

PO Box 17322 address: 22125 17th Ave SE #117

Denver, CO 80217 Bothell, WA 98021

Customer Service: Pat Healey
Telephone: 425-398-5556
Fax: 425-398-2566
Ordering procedures: See the next pages

Credit card acceptance: None

Minimum orders:

Delivery time: 45 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category Category 6 Communication Towers
Equipment Line items Radian Products 20% off list price
Rohn Products 40% off list price

Link to bid Specifications

Link to Price Sheets

http://www.ga.wa.gov/pca/bids/02702-Phase2-Category6.doc

REV F SPECIFICATIONS

3-LEGGED TRIANGULAR SELF SUPPORT TOWERS Page 190

REV F SPECIFICATIONS GUYED TOWERS Page 191

Engineering Hourly Rate \$100.00 per hour Manufacturing Hourly \$70.00 per hour Field Installation Hourly \$65.00 per hour

Current Contract Information

Contract No. 02702c.doc Radian Communication Services Inc

Page 188

Rate

Material at cost + 15%

Awarded Phase(s)

Phase I & II

Contract No. 02702c.doc

Radian Communication Services Inc

Category 6 Communication Towers

SPECIAL TERMS AND CONDITIONS

1. MATERIALS AND WORKMANSHIP

The Contractor shall be required to furnish all materials, equipment and/or services necessary to perform contractual requirements. Materials and workmanship in the construction of equipment for this contract shall conform to all codes, regulations and requirements for such equipment, specifications contained herein, and the normal uses for which intended. Materials shall be manufactured in accordance with the best commercial practices and standards for this type of equipment. Materials used in the production of any tower must be new.

2. WARRANTY(IES)

All materials provided shall be guaranteed by the contractor against mechanical, electrical and workmanship defects. In the event defects become evident within the warranty period, the contractor shall furnish replacement parts and materials at no additional cost to the state. The warranty period shall commence with the date of the communications tower's acceptance and remain in effect for one (1) calendar year, except for expendable items.

The contractor shall provide, within the warranty period and at the bid price, the necessary parts, labor and transportation to maintain the equipment in sufficient state of repair to continue system performance in compliance with the specification contained herein. The contractor shall provide qualified personnel, replacement parts and material to service the equipment at the installed site location within eight (8) hours after the notification of equipment failure. Repairs must be complete within 48 hour.

This warranty period maintenance shall be on a working hour basis as follows: 24 hours per day, 7 days per week.

3. Due to the federal guidelines for microwave towers, the contract has included REV G specifications to adapt to WSCA States who adopt the federal regulations regarding microwave towers and monopoles.

Radian Communication Services Inc – Phase II

REV F SPECIFICATIONS

3-LEGGED TRIANGULAR SELF SUPPORT TOWERS

Tower in	Mfg	Tower Costs	Climbing	Obstruction	Soils	Grounding	Tower	Standard	Rose Safety	Total \$
20 ft	stock	Material &	Ladder &	Lighting	Report	of Tower	Installation	Safety Climb	Climb Rail	
Section, top	number	Freight Only	Anti-Climb	System	Costs	Base & WG	Costs	Cable Device	Device	
down			Device	Medium		Ladder	Labor	includes	includes	
			Material &	Intensity			Only	harness,	sleeve + Top	
Line Item			Labor	Material &				sleeve + Top	& Bottom	
				Labor				& Bottom	Stops +	
								Stops + Install	Install Labor	
								Labor		
1. 20 ft	RS70	\$9,935.00	\$1,161.00	\$0.00	\$3,450.00	INCLUDED	\$2,440.00	\$302.00	\$394.00	\$17,682.00
2. 40 ft	RS70	\$11,850.00	\$1,464.00	\$0.00	\$3,450.00	INCLUDED	\$3,393.00	\$268.00	\$426.00	\$20,851.00
3. 60 ft	RS70	\$13,110.00	\$1,822.00	\$0.00	\$3,450.00	INCLUDED	\$3,813.00	\$455.00	\$692.00	\$23,342.00
4. 80 ft	RS70	\$15,306.00	\$2,140.00	\$0.00	\$3,450.00	INCLUDED	\$5,408.00	\$294.00	\$620.00	\$27,218.00
5. 100 ft	RS70	\$18,444.00	\$2,483.00	\$0.00	\$3,450.00	INCLUDED	\$6,674.00	\$600.00	\$976.00	\$32,627.00
6. 120 ft	RS70	\$21,695.00	\$2,815.00	\$0.00	\$3,450.00	INCLUDED	\$9,989.00	\$325.00	\$794.00	\$39,068.00
7. 140 ft	RS70	\$24,892.00	\$3,144.00	\$0.00	\$3,450.00	INCLUDED	\$12,597.00	\$749.00	\$1,287.00	\$46,119.00
8. 160 ft	RS70	\$30,077.00	\$3,576.00	\$0.00	\$3,450.00	INCLUDED	\$16,886.00	\$359.00	\$887.00	\$55,235.00
9. 180 ft	RS70	\$34,290.00	\$3,805.00	\$0.00	\$3,450.00	INCLUDED	\$18,513.00	\$898.00	\$1,584.00	\$62,540.00
10. 200 ft	RS70	\$42,998.00	\$4,175.00	\$0.00	\$3,450.00	INCLUDED	\$22,079.00	\$388.00	\$1,126.00	\$74,216.00
11. 220 ft	RS70	\$47,799.00	\$4,317.00	\$3,889.00	\$3,450.00	INCLUDED	\$25,735.00	\$929.00	\$1,765.00	\$87,884.00
12. 240 ft	RS75	\$66,113.00	\$4,626.00	\$3,944.00	\$3,450.00	INCLUDED	\$30,887.00	\$421.00	\$1,334.00	\$110,775.00
13. 260 ft	RS75	\$76,334.00	\$4,896.00	\$3,993.00	\$3,450.00	INCLUDED	\$32,817.00	\$1,077.00	\$2,056.00	\$124,623.00
14. 280 ft	RS75	\$95,144.00	\$5,303.00	\$4,060.00	\$3,450.00	INCLUDED	\$37,024.00	\$447.00	\$1,527.00	\$146,955.00
15. 300 ft	RS75	\$102,712.00	\$5,595.00	\$4,090.00	\$3,450.00	INCLUDED	\$39,390.00	\$1,226.00	\$2,355.00	\$158,818.00

Radian Communication Services Inc - Phase II

REV F SPECIFICATIONS

GUYED TOWERS

Tower in	Mfg	Tower	Climbing	Obstruction	Soils	Grounding	Tower	Standard	Rose Safety	Total \$
20 ft	stock	Costs	Ladder &	Lighting	Report	of Tower	Installation	Safety Climb	Climb Rail	
Section, top	number	Material &	Anti-Climb	System	Costs	Base & WG	Costs	Cable Device	Device	
down		Freight	Device	Medium		Ladder	Labor	includes	includes	
		Only	Material &	Intensity			Only	harness,	sleeve + Top	
Line Item			Labor	Material &				sleeve + Top	& Bottom	
				Labor				& Bottom	Stops +	
								Stops + Install	Install Labor	
								Labor		
1. 20 ft	RG33	\$10,684.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$1,470.00	\$302.00	\$297.00	\$18,178.00
2. 40 ft	RG33	\$12,011.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$3,184.00	\$250.00	\$388.00	\$21,258.00
3. 60 ft	RG33	\$13,220.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$4,082.00	\$451.00	\$692.00	\$23,870.00
4. 80 ft	RG33	\$15,142.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$5,187.00	\$532.00	\$849.00	\$27,135.00
5. 100 ft	RG33	\$16,430.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$6,365.00	\$600.00	\$989.00	\$29,809.00
6. 120 ft	RG33	\$18,634.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$6,765.00	\$668.00	\$1,148.00	\$32,640.00
7. 140 ft	RG33	\$21,157.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$7,084.00	\$751.00	\$1,287.00	\$35,704.00
8. 160 ft	RG33	\$23,078.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$8,577.00	\$838.00	\$1,474.00	\$39,392.00
9. 180 ft	RG33	\$24,699.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$9,861.00	\$898.00	\$1,584.00	\$42,467.00
10. 200 ft	RG33	\$26,573.00	\$1,515.00	\$0.00	\$3,910.00	INCLUDED	\$11,873.00	\$921.00	\$1,689.00	\$46,481.00
11. 220 ft	RG33	\$28,372.00	\$1,515.00	\$3,889.00	\$3,910.00	INCLUDED	\$11,093.00	\$929.00	\$1,765.00	\$51,473.00
12. 240 ft	RG33	\$32,441.00	\$1,515.00	\$3,944.00	\$3,910.00	INCLUDED	\$13,534.00	\$1,005.00	\$1,920.00	\$58,269.00
13. 260 ft	RG33	\$37,528.00	\$1,515.00	\$3,993.00	\$3,910.00	INCLUDED	\$14,525.00	\$1,077.00	\$2,056.00	\$64,604.00
14. 280 ft	RG33	\$42,041.00	\$1,515.00	\$4,060.00	\$3,910.00	INCLUDED	\$15,367.00	\$1,168.00	\$2,248.00	\$70,309.00
15. 300 ft	RG33	\$45,449.00	\$1,515.00	\$4,090.00	\$3,910.00	INCLUDED	\$16,136.00	\$1,226.00	\$2,355.00	\$74,681.00

Radian Communication Services Inc - Phase II

REV G SPECIFICATIONS¹ RADIAN COMMUNICATIONS

REV G CATEGORIES	G:\Purchasing & Contracts\Contracts\	
MICROWAVE TOWERS	REV G Towers & Monopoles 2007 Price	
CAMERA POLES	Radian Camera Pole Pricing 2007.pdf	
OPTIONAL LIGHTING	Radian Lighting Data.pdf	

¹ Rev G is the new federal requirements for microwave communications. Each state may or maynot adopt the federal requirements so they would use Rev F specifications. Each WSCA member may use which specification their particular state has adopted or use a combination of both. Rev G was added to increase flexibility for members in choosing

CONTRACTOR INFORMATION

Category 7 Microwave Antennas, Waveguide & Associated Hardware

Contractor: Radio Frequency System

Alternate Contact: Contact: Richard Bogue Ray Bibisi, Senior Director

> National Area Sales 203-630-3311 x 1238

Meriden, CT 06450

203-630-3311 x1223 Phone:

203-634-2272 Fax: 203-821-3852

Email: Richard.bogue@rfsworld.com ray.bibisi@rfsworld.com Internet address: http://www.rfsworld.com/ 200 Pondview Drive

Web catalog address:

Federal ID No.: 13-3379797 cell (203) 768-2238

Supplier No.: W3302

Total Contract worth: \$500,000,00.00

Radio Frequency Systems, Payment address: First Union National Bank Order placement

> PO Box 601000 address:

One Tower Lane, Suite 1925 M/F: Radio Frequency Oakbrook Terrace, IL 60181

Systems

Charlotte, NC 28260-1000

Customer Service/Order Tracey Fetzer, Twyla Lewis or Nanette Cummins

Placement:

Customer Service: Tracey Fetzer, Twyla Lewis or Nanette Cummins

630-218-2720; Tracey Fetzer (ext. 1164), Twyla Lewis (ext. 1162), Nanette Telephone:

Cummins (ext. 1149)

630-218-2728 Fax:

Ordering procedures: Contact Customer Service/Order Placement/

Credit card acceptance: Visa, Master Card, American Express

Minimum orders: None

Delivery time: 30 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A Category 7

Equipment Line items See Price Sheets and note surcharge below. If comparing contract pricing please

note if contractor includes surcharges that apply throughout the industry.

http://www.ga.wa.gov/pca/bids/02702-Phase2-Category7.doc

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s)

Phase I & II

Additional Distributors **HUTTON COMMUNICATIONS**

TESSCO

REPAIR FACILITIES

In the event that an item should need repair, the Sales Administrator will provide the customer with a Return Material Authorization (RMA) number. The sales administrator then records all pertinent information into RFS' database and advises the customer of the correct location to which the material must be shipped. Note that the RMA number must be clearly marked on the outside of the shipping container.

When the material arrives at the designated location, the receiving department updates the system showing the return as "Received". The material is then forwarded for evaluation. After the evaluation is complete, the database is again updated. Computer generated reports are issued on a daily basis to advise sales of the status of all returns.

Once sales has received the evaluation, a course of action takes place based on the reason for the return and the quality assurance evaluation. The customer is then notified and the item is either repaired or replaced. All repairs are made by RFS employees at RFS facilities.

All returns should be sent to the following locations:

Antennas and Dehydrators Radio Frequency Systems, Inc

175 Corporate Court Meriden, CT 06450

Cable, Connectors, Jumpers & Accessories Radio Frequency System, Inc.

29 Research Parkway Wallingford, CT 06492

CONTACTS AND PHONE NUMBERS (Revised)

STATE	CONTACT NAME	PHONE NUMBER
Alaska	Tracey Fetzer	630-218-2720 ext 1164
Arizona	Twyla Lewis	630-218-2720 ext 1162
Northern California	Nanette Cummins	630-218-2720 ext 1149
Southern California	Nanette Cummins	630-218-2720 ext 1149
Colorado	Twyla Lewis	630-218-2720 ext 1162
Georgia	Rick Barbieri	203-630-3311 ext 1096
Hawaii	Tracey Fetzer	630-218-2720 ext 1164
Idaho	Tracey Fetzer	630-218-2720 ext 1164
Minnesota	Tracey Fetzer	630-218-2720 ext 1164
Montana	Tracey Fetzer	630-218-2720 ext 1164
Northern Nevada	Nanette Cummins	630-218-2720 ext 1149
Southern Nevada	Nanette Cummins	630-218-2720 ext 1149
New Mexico	Twyla Lewis	630-218-2720 ext 1162
Oklahoma	Nanette Cummins	630-218-2720 ext 1149
Oregon	Tracey Fetzer	630-218-2720 ext 1164
South Dakota	Tracey Fetzer	630-218-2720 ext 1164
Utah	Twyla Lewis	630-218-2720 ext 1162
Washington	Tracey Fetzer	630-218-2720 ext 1164
Wyoming	Twyla Lewis	630-218-2720 ext 1162

Raw Material Surcharge Price List USD/ft

Model Number	Surcharge [\$/ft]	Model Number	Surcharge [\$/ft]
CELLFLEX		FLEXWELL	
SCF14-50 SCF38-50 SCF12-50 SCF78-50 UCF78-50 UCF114-50 LCF14-50 LCF38-50 LCF12-50 LCF58-50 LCF78-50	0.06 0.15 0.16 0.47 0.31 0.63 0.06 0.10 0.13 0.30 0.35	E20 E30 E38/EP38 E46/EP46/ESP46 EP58 E60/60 E65/EP65 EP70 E78/EP78 EP100 E105/EP105 E130/EP130 E150/EP150 E185/EP185	3.99 2.62 1.62 1.22 0.86 0.85 0.80 0.74 0.71 0.55 0.53 0.39 0.34 0.27
LCF214-50	1.10	E220 E250	0.23 0.15
RADIAFLEX Cable Type: ALF, RLF, RLK Nominal Size	EO11	E300 E380	0.13 0.10 0.94
12 58 78 114 158	0.06 0.23 0.26 0.41 0.41	EO15 EO19 EO22 EO38	0.75 0.53 0.32 0.13
Cable Type: RSF, RCF Model Number RSF12-50 RCF12-50 RCF78-50 RCF114-50 RCF158-50	0.16 0.13 0.34 0.67 0.70	HELIFLEX HCA38-50 HCA12-50 HCA58-50 HCA78-50 HCA118-50 HCA158-50 HCA214-50 HCA295-50 HCA300-50 HCA318-50 HCA418-50 HCA500-50 HCA500-50 HCA618-50J HCA800-50J	0.33 0.15 0.74 0.75 1.03 1.30 1.58 2.54 1.97 3.43 4.40 7.53 9.75 17.04
lumper			

Jumper

Example: Jumper SCF12-50 7M7MS12-060P 6ft x 0.16\$/ft = 0.96\$

The above surcharges are based on LME values on copper between 5500 and 7000 USD per mt.

Raw Material Surcharges for Jumpers are equivalent to Cable Surcharges.

	HUTTON COMMUNICATIONS					
Main Contact (inside): Lisa Hensley 866-270-8808 henslyl@huttoncom.com		Secondary Contact: Tammy Coones 877-648-8866 coonest@huttoncom.com		Customer Service MGR: Spencer Peart 972-417-0266 peartp@huttoncom.com		
Communications P.O. Box 201439 Dallas, TX 75320		Hutto 2520 Carro	r placement address: on Communications Marsh Lane ollton, TX 75006 r placement fax: 877- 3274	Internet address: http://www.huttononline.com		
			TESSCO			
Main Contact:	Glenn Frame		Seconda	ry Contact:	John Hunt	
Address:	11126 McCo	mick Road		Address:	4775 Aircenter Cr.	
	Hunt Valley,	MD 21031			Reno, NV 89502	
Phone Nu	410-	229-1344	Phone	e Numbers:	1 -888 821 0591	
mbers:				Fax:	1 775-689 5557	
Email:	frame@	tessco.com		Email:	huntj@tessco.com	

Radio Frequency System

General

This specification covers the latest state of the art Microwave Antennas and Associated Equipment of ruse in specified frequency bands to meet the needs of the State of Washington, its departments and agencies, universities, colleges, community colleges and schools and all political subdivisions.

Classification

All antennas, transmission line connectors and associated hardware selected as suitable for purchase will be given classification within the frequency band groups as follows:

Frequency Band

0932	-	0960	MHz
2110	-	2200	MHz
2290	-	2500	MHz
5725	-	5850	MHz
5925	-	6875	MHz
10.7	-	11.7	GHz
17.7	-	19.7	GHz
21.8	-	23.6	GHz

Standards

- 1. Part 101, Federal Communications Commission (FCC) Rules and Regulations and amendments; E. I. A. Standards and amendments, RS222.(Latest Version)
- 2. These specifications are exclusive of any and all equipment with proprietary items, components or devices inclusive therein. All technical tolerances, ratings, or any technically specified criteria contained within this specification are within the current state-of-the-art and are currently being met by commercially available equipment.
- 3. All material and workmanship will be of the type and grade most suitable for the application. All material will be free from defects, of current design, of recent manufacture and unused.
- 4. The State of Washington reserves the right to reject any bid proposing equipment that has proven in actual use and properly documented to be unreliable or unsuitable for the work to be accomplished and /or has shown that the operating or maintenance costs of which have been excessive in comparison with other makes of similar equipment working under like conditions.
- 5. All material and equipment furnished will be subject to approval by the State of Washington, Department of General Administration, Office of State Procurement, including engineers selected to review the products with regard to design, operation, performance and requirements of this specification. The acceptance of equipment or parts thereof will in no way relieve the contractor of responsibility for furnishing equipment that meets this specification in all detail.
- 6. Should any of the inspections, tests, or operation of the equipment under service conditions show the equipment does not meet the requirements of the specifications, the State will reject the equipment or parts thereof and require the contractor to make changes as necessary to meet the requirements of the specifications at the expense of the contractor.
- 7. The contractor(s) will hold and save the State, its officers, agents, servants, and employees harmless from liability of any nature of kind, including costs and expense, for or on account of any patented or unpatented invention, articles, or appliance manufactured or used in the performance of any and all contracts encompassing theses specifications.
- 8. Unless specifically excepted by the terms of these specifications, any part or accessories ordinarily furnished or required to make the equipment, herein specified, a complete operating unit will be furnished by the contractor whether identified in these specifications or not.

Radio Frequency System

9. All units will be delivered to the purchaser with any and all equipment modifications intact and installed.

Technical Manuals

1. The contractor will make available equipment documentation to purchasers in any quantity specified by the purchaser over and above the quantity specified herein. This documentation will accompany the equipment at the time of delivery or may be delivered prior to equipment delivery. Documentation costs for purchaser specified manuals will be included as separate bid items. A copy of radiation patterns will be provided at not cost if requested.

Service, Installation and Operation Manuals

Installation and or operator manuals will be furnished with each order. Each manual will contain:

- 1. Complete diagrams including information outlining method of operation, supply voltages and currents and power requirements for each model of dehydrators.
- 2. Detailed drawings or clear photographs showing location of parts and hardware associated with antenna assembly or mounting.

Equipment Service Life

1. All equipment covered by these specifications and any resultant contracts will have a minimum service life of ten (10) years from date of delivery to the purchaser. The contractor will guarantee replacement parts stocking by the vendor and/or authorized distributor for this service life period.

Equipment and Parts Warranty

- 1. Each contractor will guarantee repair or replacement of any equipment or part thereof that fails in operation during normal and proper use within two (2) years from the date of purchaser's receipt due to defects in design, material or workmanship, consummation of final acceptance and payment notwithstanding. These replacements will be made with celerity and without charge to the purchaser. The cost of installation of these replacements will be borne by the contractor for the period of the warranty.
- 2. Any equipment or part replaced under the provisions of this warranty becomes the property of the contractor. If the vendor desires the defective equipment or part returned, the contractor will pay all transportation charges and make all arrangements for the return. If the contractor does not specifically request return of such replaced parts within thirty (30) days from the date of replacement, the equipment for parts become property of the purchaser.
- 3. Replacement parts will be regularly stocked by the contractor and/or authorized distributor. Delay in purchaser's receipt of replacement parts will not exceed ten (10) consecutive days from contractor's or distributor's receipt of order.
- 4. The contractor will guarantee delivery of emergency orders within forty-eight (48) hours from receipt of order. Emergency orders will be transported by the most expedient manner available with the transportation cost born by the purchaser less normal shipping cost.
- 5. The contractor will supply the purchaser, free of charge for the service life of the equipment, with all data, drawings, and specifications of modifications, plans or experiments by which the equipment may be improved or modernized.

General Equipment characteristics

The following characteristics apply to all equipment unless otherwise specified.

Environmental

- 1. All antennas will survive wind velocities of 125 miles per hour with one (1) inch of radial ice and no more than 0.1 degree of deflection in 70 mile per hour wind.
- 2. All antennas will remain operational within the temperature range of -58°F to 155°F.
- 3. All antennas and associated hardware will be non-corrosive, non-rust material. This can be accomplished by supplying Hot Dipped Galvanized or Stainless Steel hardware. Plated steel will not be accepted. Aluminum antennas will be painted with corrosion resistant paint.
- 4. Field assembly of all antennas shall only be between antenna parabola, feed, antenna mount and fixed and/or slide assemblies. There shall be no field assembly parabola for that is too time consuming. Antenna mount assembly is permitted.
- 5. Parabolic solid antennas shall be equipped to include mounting hardware for a 4.5" vertical O.D. mounting pipe. Parabolic grid antennas shall be equipped to include mounting hardware for either a 1.9" 3.5" or a 4.5" vertical O.D.(Outside Diameter) mounting pipe.
- 6. For parabolic solid antenna shall have a reflector surface tolerance designed to 15GHz so that antenna feeds could be interchanged between 2GHz and 10 GHz without loss to antenna gain. The same like between antenna feeds in the 18GHz and 23GHz bands.

Operational Characteristics

Material and workmanship will be of the type and grade most suitable for the application and will conform as a minimum unless otherwise specified to the latest applicable standards, specifications, recommended practices and procedures of such standardizing bodies as the I.E.E.E., E.I.A., N.E.M.A., F.C.C.

Contract No. 02702 Radio Frequency System – Phase II

CATEGORY 7 PRICE SHEETS

Contractor	Category 7 Waveguides and Antennas
Radio Frequency Systems	http://www.ga.wa.gov/pca/bids/02702-Phase2-Category7.doc

ANTENNAS

The specifications listed herein are minimum requirements; a range variance of up to a maximum of .9DB has been identified as acceptable.

A. Welded Grid Antenna. 928-960 MHz. Type "N" Female input connector.

Diameter in	Gain DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSRW	RFS P/N	PRICE
Feet	Bottom	Mid Band	Top	Category	width in °s	Disc. DB	DB			EACH
4.0	18.3	18.6	19.1	В	17.4	25	21	1.4	MGA4-082N	\$632.50
6.0	212	21.3	21.6	A	12.6	25	30	1.4	MGA6-082N	\$1,144.00
8.0	23.7	24.4	25.0	A	9.0	26	24	1.35	GKL8-082N	\$1,628.00
10.0	25.6	26.3	27.0	A	7.2	26	27	1.35	GKL10-082N	\$1,974.50
12.0	27.4	28.2	28.8	A	5.9	26	30	1.3	GKA12-082M	\$3,184.50

B. Solid Parabolic Reflector Standard Antenna, 928-960 MHz, 7/8" EIA Flange or Type "N" Female Input Connector

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	EACH.
4.0	18.1	18.4	18.8	В	19.5	10	22	1.3	PAF4-890AE	\$777.60
6.0	21.6	22.1	22.3	A	13.0	15	25	1.3	PAF6-890AE	\$931.20
8.0	24.1	24.5	24.8	A	9.7	15	27	1.3	PAF8-890AE	\$1,382.40
10.0	26.1	26.4	26.7	A	7.7	15	29	1.3	PAF10-890AE	\$2,112.00
12.0	27.6	28.0	28.3	A	6.4	15	30	1.3	PAF12-890AE	\$3,686.40

C. Welded Grid Antenna 2.1-2.2 GHz, 7/8" EIA Flange or Type "N" Female Input Connector. "AIR DIELECTRIC FEED"

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Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	25.6	26.8	27.2	В	8.0	29	34	1.3	MGA4-19N	\$632.50
606	28.5	29.3	30.1	A	5.4	32	35	1.2	MGA6-19N	\$1,144.00
8.0	31.0	31.8	32.6	A	4.1	35	41	1.2	GKL8-19N	\$1,628.00
10.0	32.9	33.8	34.6	A	3.2	35	45	1.2	GKL10-19N	\$1,974.50
12.0	34.7	35.6	36.4	A	2.6	40	47	1.2	GKA12-19N	\$3,184.50
15.0	36.6	37.5	38.3	A	2.1	40	49	1.2	GPW15-19N	\$12,223.75

Radio Frequency System – Phase II

D. Welded Grid Antenna 2.1-2.2 GHz, 7/8" EIA Flange or Type "N" Female Input Connector. "FOAM FEED"

NOTE: NON PRESSURIZED FEEDS ARE NOT AVAILABLE SEE ABOVE

	1,012,1,01,112,001422212201421,011,112,222,22120,12									
Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	26.5	26.7	26.9	В	7.9	29	32	1.3	N/A	\$
6.0	30.3	30.5	30.7	A	5.3	32	35	1.2	N/A	\$
8.0	32.0	32.2	32.4	A	4.0	35	39	1.2	N/A	\$
10.0	33.8	34.0	34.2	A	3.2	35	41	1.2	N/A	\$
12.0	35.3	35.5	35.7	A	2.6	40	44	1.2	N/A	\$
15.0	37.3	37.5	37.7	A	2.1	40	46	1.2	N/A	\$

E. Solid Parabolic Standard Antenna 2.1-2.2 GHz, 7/8" EIA Type "N" Female Input Connector.

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	24.8	25.7	26.6	В	8.1	27	33	1.2.	PAL4-19AN	\$844.80
6.0	28.7	29.6	30.5	В	5.5	30	37	1.15	PAL6-19AN	\$1,017.60
8.0	31.2	32.1	33.0	A	4.1	30	40	1.1	PAL8-19AN	\$1,449.60
10.0	33.1	34.0	34.9	A	3.3	30	43	1.1	PAL10-19AN	\$2,198.40
12.0	34.7	35.6	36.5	A	2.8	30	45	1.1	PAL12-19AN	\$3,979.20
15.0	36.4	37.3	38.3	A	2.2	30	49	1.0	PAL15-19AN	\$10,512.00

F. Solid Parabolic Standard Antenna 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	35.9	36.4	36.8	-	2.5	30	43	1.08	PAL4-65AC	\$844.80
6.0	39.4	39.9	40.3	В	1.7	30	47	1.06	PAL6-65AC	\$1,017.60
8.0	41.6	42.1	42.5	Α	1.3	30	59	1.06	PAD8-65AC	\$1,608.00
	42.0	42.4	42.9	В	1.2	30	49	1.06	PAL8-65AC	\$1,449.60
10.0	43.5	43.9	44.3	Α	1.0	30	52	1.06	PAD10-65AC	\$2,304.00
	43.7	44.1	44.6	В	1.1	30	63	1.06	PAL10-65AC	\$2,198.00
12.0	45.3	45.8	46.2	Α	0.8	30	70	1.06	DA12-65AC	\$6,020.00

Radio Frequency System - Phase II

G. Solid Parabolic Dual Polarized Standard Antenna 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB	V 5 V 1C	P/N	
6.0	39.2	39.7	40.1	В	1.7	30	47	1.06	PAX6-65AC	\$1,670.40
8.0	41.4	41.9	42.3	A	1.2	30	59	1.06	PADX8-65AC	\$2,145.60
10.0	43.5	43.9	44.4	A	1.0	30	52	1.06	PADX10-65AC	\$2,832.00
12.0	45.1	45.6	46.0	A	0.8	30	71	1.06	DAX12-65AC	\$6,468.00

H. Single Polarized Antenna, 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	35.6	36.0	36.5	-	2.5	30	58	1.08	DA4-65AC	\$1,536.00
6.0	39.4	39.8	40.2	В	1.7	30	64	1.06	DA6-64AC	\$2,820.00
8.0	41.9	42.3	42.8	A	1.3	30	66	1.06	DA8-65AC	\$3,498.00
10.0	43.7	44.1	44.6	A	1.0	30	69	1.06	DA10-65AC	\$4,444.00
12.0	45.3	45.8	46.2	A	0.8	30	70	1.06	DA12-65AC	\$6,020.00

I. Dual Polarized Antenna, 6.425-7.125 GHz, CPR 137G Input Flange

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	34.8	35.3	35.7	-	2.5	30	58	1.10	DAX4-65AC	\$1,794.00
6.0	39.1	39.5	39.9	A	1.7	30	64	1.07	DAX6-65AC	\$2,990.00
	39.2	39.7	40.1	В	1.7	30	47	1.06	PAX6-65 AC	\$1,670.40
8.0	41.6	42.0	42.4	A	1.3	34	68	1.06	DAX8-65AC	\$3,684.00
	41.8	42.2	42.7	В	1.3	30	52	1.06	PAX8-65 AC	\$1,987.20
10.0	43.6	44.0	44.4	A	1.0	34	70	1.06	DAX10-65AC	\$4,804.00
	43.5	43.9	44.4	В	1.0	30	58	1.06	PAX10-65AC	\$2,515.20
12.0	45.1	45.6	46.0	A	0.8	30	71	1.06	DAX12-65AC	\$6,468.00

J. Single Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	40.1	40.5	40.9	В	1.6	30	62	1.08	DA4-107AC	\$1,536.00
6.0	43.5	43.9	44.3	В	1.0	30	60	1.06	PAD6-107AC	\$1,080.00
8.0	46.0	46.4	46.8	A	0.7	30	62	1.06	PAD8-107AC	\$1,608.00
10.0	47.9	48.3	48.5	A	0.7	30	64	1.06	PAD10-107AC	\$2,304.00
12.0	49.4	49.8	50.0	A	0.5	30	71	1.06	DA12-107AC	\$6,020.00

Radio Frequency System - Phase II

K. Dual Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	40.0	40.4	40.8	A	1.5	30	64	1.10	DAX4-107AC	\$1,794.00
6.0	43.4	43.8	44.2	A	1.0	30	60	1.08	PADX6-107AC	\$1,728.00
8.0	45.9	46.3	46.7	A	0.8	30	62	1.08	PADX8-107AC	\$2,145.60
10.0	47.8	48.2	48.4	A	0.7	30	64	1.08	PADX10-107AC	\$2,832.00
12.0	49.2	49.6	49.9	Α	0.5	30	72	1.06	DAX12-107AC	\$6,468.00

L. Single Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	40.1	40.5	40.9	A	1.6	30	62	1.08	DA4-107AC	\$1,536.00
6.0	43.7	44.0	44.5	A	1.0	30	70	1.06	DA6-107AC	\$2,820.00
8.0	46.1	46.4	46.9	A	0.8	30	71	1.06	DA8-107AC	\$3,498.00
10.0	48.0	48.4	48.6	A	0.7	30	71	1.06	DA10-107AC	\$4,444.00
12.0	49.4	49.8	50.0	A	0.5	30	72	1.06	DA12-107AC	\$6,020.00

M. Dual Polarized Parabolic Antenna, 10.7-11.7 GHz, CPR 90G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Тор	Category	Width °s	Disc. DB	DB		P/N	
4.0	40.0	40.4	40.8	A	1.5	30	64	1.10	DAX4-107AC	\$1,794.00
6.0	43.5	43.8	44.3	A	1.0	30	68	1.08	DAX6-107AC	\$2,990.00
8.0	45.9	46.2	46.7	A	0.8	30	69	1.06	DAX8-107AC	\$3,684.00
10.0	47.8	48.2	48.4	A	0.7	30	70	1.06	DAX10-107AC	\$4,804.00
12.0	49.2	49.6	49.9	Α	0.5	30	72	1.06	DAX12-107AC	\$6,468.00

N. Single Polarized Parabolic Antenna, 17.7-19.7 GHz, UG-595/U Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
2.0	38.1	38.6	39.1	A	1.9	32	62	1.20	SU2-190AZ	\$360.00
4.0	44.1	44.6	45.1	A	0.9	32	67	1.20	SU4-190AZ	\$896.00
	44.3	44.8	45.3		0.9	32	53	1.20	SP4-190AZ	\$739.00
6.0	47.5	48.0	48.5	A	0.7	32	71	1.20	SU6-190AZ	\$1,596.00
	47.7	48.2	48.7		.07	32	57	1.20	SP6-190AZ	\$852.00

Radio Frequency System – Phase II

O. Single Polarized Parabolic Antenna, 21.2-23.6 GHz, UG-595/U Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
2.0	39.6	40.1	40.6	A	1.6	32	66	1.20	SU2-220AZ	\$360.00
4.0	45.6	46.1	46.6	A	0.8	32	72	1.20	SU4-220AZ	\$896.00
	45.8	46.3	46.8		0.8	32	58	1.20	SP4-220AZ	\$739.20
6.0	49.0	49.5	50.0	A	0.5	32	75	1.15	SU6-220AZ	\$1,596.00
									SP6-220AZ	\$852.00

HIGH Performance and Ultra High Performance

A. High Performance, 6.425-7.125 GHz, Single Polarization, CPR 137G Input Flange

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	35.4	36.0	36.5	-	2.5	30	58	1.08	DA4-65AC	\$1,536.00
6.0	39.4	39.8	40.2	A	1.7	30	64	1.06	DA6-65AC	\$2,820.00
8.0	41.9	42.3	42.8	A	1.3	30	66	1.06	DA8-65AC	\$3,498.00
10.0	43.7	44.1	44.6	A	1.0	30	70	1.06	DA10-65AC	\$4,444.00
12.0	45.3	45.8	46.2	A	0.8	30	71	1.05	DA12-65AC	\$6,020.00
15.0	47	47.5	47.9	A	0.7	30	71	1.06	DA15-65AC	\$9,780.00

B. High Performance, 6.425-7.125 GHz, Dual Polarization, CPR 137G Input Flange

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4.0	34.8	35.3	35.7	-	2.5	30	58	1.08	DAX4-65AC	\$1,794.00
6.0	39.2	39.7	40.1	A	1.7	30	64	1.06	DAX6-65AC	\$2,990.00
8.0	41.8	42.2	42.7	A	1.3	30	68	1.06	DAX8-65AC	\$3,684.00
10.0	43.5	43.9	44.4	A	1.0	30	70	1.06	DAX10-65AC	\$4,804.00
12.0	45.1	45.6	46.0	A	0.8	30	71	1.05	DAX12-65AC	\$6,468.00
15.0	47	47.5	47.9	A	0.7	30	71	1.06	DAX15-65AC	\$10,864.00

Radio Frequency System - Phase II

\mathbf{C}	High Performance	6 425-7 125 GHz	Dual Polarization	Super Cro	oss Polarization	CPR 137G Input Flange
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Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
6	39.2	39.7	40.1	A	1.7	40	69	1.08	UXA6-65AC	\$3,900.00
8	41.8	42.2	42.7	A	1.3	40	71	1.06	UXA8-65AC	\$4,900.00
10	43.5	43.9	44.4	A	1.0	40	74	1.06	UXA10-65AC	\$5,940.00
12	45.1	45.6	46.0	A	0.8	40	76	1.06	UXA12-65AC	\$8,094.00
15	47.0	47.5	47.9	A	0.7	40	77	1.05	UXA15-65AC	\$12,296.00

D. Ultra High Performance, 6.425-7.125 GHz, Dual Polarization, CPR 137G Input Flange

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
6	39.2	39.7	40.1	A	1.7	30	69	1.08	UDA6-65AC	\$2,408.00
8	41.8	42.2	42.7	A	1.3	30	71	1.06	UDA8-65AC	\$3,900.00
10	43.5	43.9	44.4	A	1.0	30	73	1.06	UDA10-65AC	\$5,940.00
12	45.1	45.6	46.0	A	0.8	30	75	1.06	UDA12-65AC	\$8,094.00
15	47.0	47.5	47.9	A	0.7	30	76	1.05	UDA15-65AC	\$12,296.00

E. High Performance, 10.7-11.7 GHz, Single Polarization, CPR 90G Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4	40.1	40.5	40.9	A	1.6	30	61	1.08	DA4-107AC	\$1,536.00
6	43.7	44.0	44.5	A	1.0	30	70	1.06	DA6-107AC	\$2,820.00
8	46.1	46.4	46.9	A	0.8	30	71	1.06	DA8-107AC	\$3,498.00
10	48.0	48.4	48.6	A	0.7	30	70	1.06	DA10-107AC	\$4,440.00
12	49.4	49.8	50.0	A	0.5	30	70	1.05	DA12-107AC	\$6,020.00

F. High Performance, 10.7-11.7 GHz, Dual Polarization, CPR 90G Input Flange

	8	unico, 1017 111	, 0112, 2 00	T OIMITEMETOTI,	01 11 7 0 0 1mpt					
Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB	DB		P/N	
4	39.8	40.4	40.8	A	1.5	30	64	1.08	DAX4-107AC	\$1,794.00
6	43.5	43.8	44.3	A	1.0	30	68	1.06	DAX6-107AC	\$2,990.00
8	45.9	46.2	46.7	A	0.8	30	69	1.06	DAX8-107AC	\$3,684.00
10	47.8	48.2	48.4	A	0.7	30	70	1.06	DAX10-107AC	\$4,804.00
12	49.2	49.6	49.9	A	0.5	30	72	1.05	DAX12-107AC	\$6,468.00

Radio Frequency System - Phase II

G. High Performance, 10.7-11.7 GHz, Dual Polarization, Super High Cross Polarization CPR 90G Input Flange

							1 0		
Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio DB	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB		P/N	
4	40.0	40.4	40.3	A	1.5	40	70	UXA4-107AC	\$2,408.00
6	43.5	43.8	44.3	A	1.1	40	73	UXA6-107AC	\$3,900.00
8	45.9	46.2	46.7	A	0.8	40	75	UXA8-107AC	\$4,900.00
10	47.8	48.2	48.4	A	0.7	40	77	UXA10-107AC	\$5,940.00
12	49.2	49.6	49.9	A	0.5	40	78	UXA12-107AC	\$8,094.00

H. Ultra High Performance, 10.7-11.7 GHz Dual Polarization, CPR90G

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio DB	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB		P/N	
4	40.0	40.4	40.8	A	1.5	40	70	UXA4-107AC	\$2,408.00
6	43.5	43.8	44.3	A	1.1	40	73	UXA6-107AC	\$3,900.00
8	45.9	46.2	46.7	A	0.8	30	75	UDA8-107AC	\$4,900.00
10	47.8	48.2	48.4	A	0.7	30	77	UDA10-107AC	\$5,940.00
12	49.2	49.6	49.9	A	0.5	30	78	UDA12-107AC	\$8,094.00

I. High Performance, 17.7-19.7 GHz, Singal Polarization, UG595/U Input Flange

Diameter in	Gain–DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio DB	RFS	PRICE EACH
Feet	Bottom	Mid Band	Тор	Category	Width °s	Disc. DB		P/N	
8	49.9	50.3	50.8	A	0.45	30	74	DA8-190AZ	\$3,498.00

J. High Performance, 17.7-19.7 GHz, Super, Dual Polarization, UG595/U Input Flange

Diameter in	Gain-DB	Gain-DB	Gain-DB	FCC	Beam	Cross Pol	F/B Ratio DB	RFS	PRICE EACH
Feet	Bottom	Mid Band	Top	Category	Width °s	Disc. DB		P/N	
1	32.7	33.3	33.8	-	3.4	30	55	SBX1-190AZ	\$379.20
2	37.8	38.3	38.7	A	1.9	36	66	UXA2-190BZ	\$1,910.00
4	44.0	44.5	44.9	A	1.0	36	72	UXA4-190BZ	\$2,408.00
6	47.5	48.0	48.4	A	0.7	36	76	UXA6-190AZ	\$3,900.00

Radio Frequency System – Phase II

Radomes PRICING

Radome Type	Diameter in Feet	Attenuation	Attenuation	Attenuation	Attenuation	RFS	PRICE EACH
		2 GHz	6 GHz	11 GHz	18 GHz	P/N	
Standard	2.0	0.10 dB	0.30dB	.9dB	2.0db	RANDOME_2	\$184.80
Standard	4.0	0.10 dB	0.30dB	1.0dB	2.0db	RANDOME_4	\$285.60
Standard	6.0	0.10 dB	0.40dB	1.0dB	2.1db	RANDOME_6	\$393.60
Standard	8.0	0.10 dB	0.50dB	1.1dB		RANDOME_8	\$621.60
Standard	10.0	0.20dB	0.80dB	1.5dB		RANDOME_10	\$912.00

Transmission Line PRICING

Transmission line or COAXIAL cable will be will be available according to the sizes listed below:

SIZE	DESCRIPTION	PRICE per foot
1/2"	Diameter Foam Dielectric Coaxial Cable	\$.93
7/8"	Diameter Foam Dielectric Coaxial Cable	\$2.13
1-1/4"	Diameter Foam Dielectric Coaxial Cable	\$4.14
7/8"	Diameter Air Dielectric Coaxial Cable	\$3.20
1-5/8"	Diameter Foam Dielectric Coaxial Cable	\$5.28
1/4"	Diameter Super Flexible Foam Dielectric Coaxial	\$.61
	Cable	
1/2"	Diameter Super Flexible Foam Dielectric	\$1.36
	Coaxial Cable	

Elliptical and Rigid waveguide will be supplied according to the sizes and/or frequency band listed below:

TYPE	RANGE	PRICE per foot
Elliptical Waveguide for	5.925 – 7.125 GHz E65	\$6.01
Rigid Waveguide for	5.925 – 7.125 GHz	\$N/A
Elliptical Waveguide for	10.70 – 11.70 GHz E105	\$5.42
Ridid Waveguide for	10.7 – 11.70 GHz	\$N/A
Elliptical Waveguide for	17.70 – 19.70 GHz E185	\$3.89
Rigid Waveguide for	17.70 – 19.70 GHz	\$N/A
Elliptical Waveguide for	21.20 – 23.60 GHz E220	\$3.50
Rigid Waveguide for	21.20 – 23.60 GHz	\$N/A

Contract No. 02702 **Radio Frequency System – Phase II**

Connectors PRICING Connectors for Foam

ra-											
1/2"	Price	7/8"	Price	1-1/4'	Price	1-5/8	Price	¹ / ₄ " Super	Price	½" Super	Price
Connector	Each	Connector	Each	Connector	Each	Connector	Each	Flexible	Each	Flexible	Each
								Connetor		Connector	
"N" Male	\$14.46	"N" Male	\$18.94	"N" Male	\$58.98	"N" Male	\$83.34	"N" Male	\$15.75	"N" Male	\$14.67
"N" Female	\$14.46	"N" Female	\$18.94	"N" Female	\$58.98	"N"	\$83.34	"N" Female	\$10.82	"N" Female	\$12.78
						Female					
UHF Male	\$18.20	UHF Male	\$25.90	UHF Male	N/A	UHF Male	N/A	UHF Male	\$20.41	UHF Male	\$14.63
UHF Female	\$18.20	UHF Female	\$25.90	UHF	NA/	UHF	NA/	DIN Male	\$17.15	DIN Male	\$14.67
				Female		Female					
7/16 DIN	\$14.46	7/16 DIN	\$18.94	7/16 DIN	\$58.98	7/16 DIN	\$83.34	DIN Female	\$20.48	DIN Female	\$14.67
Male		Male		Male		Male					
7/16 DIN	\$14.46	7/16 DIN	\$18.94	7/16 DIN	\$58.98	7/16 DIN	\$83.34	DIN Male	N/A	DIN Male	\$20.79
Female		Female		Female		Female		Right Angle		Right Angle	
7/8" EIA	\$41.02	7/8" EIA	\$42.42	7/8" EIA	\$84.70	7/8" EIA	\$121.28				

7/8" Connectors for Air Dielectric

TYPE	PRICE EACH
"N" Male 738247	\$43.75
"N" Female 738226	\$41.65
7/8" EIA Flange 738229 (GB) OR 738230 (GB)	\$68.25 (GB) \$ 46.20 (GP)

Connectors for Waveguide

DESCRIPTION	RFS	PRICE EACH
	P/N	
EWP 63, Tunable, CPR and EW 63, Standard, CPR 137G	C137-065TG Tunable	\$112.00
	C137-065FG Standard	\$99.75
EWP 90, Tunable, CPR and EW 90, Standard, CPR 90G	C90-105TG Tunable	\$119.00
	C90-105FG Standard	\$108.50
EWP 180, Tunable, UG595/U and EW 180, Standard, UG595/U	G595-185TG Tunable	\$120.75
EW 220, Fixed Tuned	B220-220FP PBR FLANGE	\$87.50
	PLAST 2000 SEAL	

Contract No. 02702 Radio Frequency System – Phase II

Dehydrators

Flow Rate	Pressure	Dew	Recom.	Type	Voltage	Power	Alarms	RFS P/N	Price
SCFM	PSIG	Point	Volume ft ³						
0.9	3-8	-33	0-10	D	115 VAC	230	none	SPD-10	\$553.90
0.05	5	-50	0-20	M	115 Vac	184	LP	APD-20	\$1,046.90
0.05	5	-50	0-20	M	115 Vac	184	Full	APD-20W/ALARMS*	\$2,162.38
0.2	5	-50	0.01-60	M	115/230 Vac	350/390	LP	APD-22	\$1,191.90
0.2	5	-50	0.01-60	M	115 Vac	350-550	LP	APD-20	\$1,046.90
0.2	5	-50	0.01-60	M	115 Vac	350-550	LP	APD-20	\$1,046.90
0.3	3-8	-50	2-80	M	115 Vac	390	LP	APD-20	\$1,046.90
0.3	3-8	-50	2-80	M	115 Vac	390	LP	APD-20	\$1,046.90
0.3	3-8	-50	2-80	M	115 Vac	390	Full	APD-20 W/ALARMS*	\$2,162.38
0.3	3-8	-50	2-80	M	115	390	Full	APD-20 W/ALARMS*	\$2,162.38

^{*}Run Time Alarm Kit is P/N 914976

^{*}Pressure & Humidity Alarm is P/N 920717-001

Radio Frequency System - Phase II

Spread Spectrum

A. Welded Grid Antenna. 2300-2500 MHz "Spread Spectrum" Type "N" Female Input connector or 7/8" EIA Flange

Diameter in	Gain – DB	Gain – DB Mid	Gain – DB	Beamwidth	F/B Ratio DB	VSWR	RFS	PRICE EACH
Feet	Bottom	Band	Top	Degrees			P/N	
4.0	26.8	27.0	27.2	7.0	32	1.35	MGAR4-23N	\$522.50
6.0	29.6	30.1	30.4	4.5	38	1.35	MGAR6-23N	\$940.50
8.0	32.0	32.4	32.8	3.4	41	1.35	GKLR8-23N	\$1,441.00
10.0	33.9	34.3	34.6	2.7	45	1.35	GKLR10-12N	\$1,881.00
12.0	36.0	36.4	36.7	2.6	47	1.35	GKAR12-23N	\$2,992.00
15.0	38.1	38.6	39.1	1.9	48	1.35	NO BID	\$

B. Solid Parabolic Reflector Standard Antenna, 2290-2450 MHz, "Spread Spectrum" Type "N" Female Input Connector or 7/8" EIA Flange.

Diameter in	Gain – DB	Gain – DB Mid	Gain – DB	Beamwidt	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Band	Top	h Degrees	Disc. DB	DB		P/N	
4.0	26.7	27.1	27.3	6.9	25	36	1.3	SPF4-23AJ	\$720.00
6.0	30.2	30.6	30.9	4.6	25	39	1.1	SPF6-23AJ	\$852.00
8.0	32.9	33.3	33.3	3.5	30	40	1.1	PAF8-23AE	\$1,430.40
10.0	34.9	35.2	35.3	2.8	30	43	1.1	PAF10-23AE	\$2,112.00
12.0	36.5	36.8	37.2	2.3	30	45	1.1	PAF12-23AE	\$3,686.40

C. Solid Parabolic Reflector Standard Antenna, 5725-5850 MHz, "Spread Spectrum" CPR 137G Flange

Diameter in	Gain – DB	Gain – DB Mid	Gain – DB	Beamwidt	Cross Pol	F/B Ratio	VSWR	RFS	PRICE EACH
Feet	Bottom	Band	Top	h Degrees	Disc. DB	DB		P/N	
2.0	27.4	27.9	28.4	6.2	25	34	1.5	SPF2-52AN	\$408.00
3.0	30.9	31.4	31.9	4.2	25	38	1.5	SPF3-52AN	\$669.60
4.0	33.4	33.9	34.4	3.1	28	40	1.5	SPF4-52AN	\$739.20
6.0	37.0	37.4	37.9	2.1	30	44	1.5	SPF6-52AN	\$936.00

Radio Frequency System - Phase II

Accessory price discount off manufacturer price list Discount off Manufacturer Price List: See Below for rate

RADIO FREQUENCY SYSTEMS, INC.

PURCHASE DISCOUNTS FOR STATE OF WASHINGTON AND OTHER WSCA STATES

Phase I	
High Performance Microwave Antennas	60%
Standard Performance Microwave Antennas	52%
Grid Microwave Antennas	45%
Flexwell® Elliptical Waveguide	65%
Flexwell® Elliptical Waveguide Connectors	65%
Flexwell® Elliptical Waveguide Accessories	65%
CELLFLEX® LCF Foam Dielectric Coaxial Cables	65%
CELLFLEX® LCF Coaxial Cable Connectors	65%
CELLFLEX® Installation Accessories	65%
Flexwell® Air Dielectric Coaxial Cables	60%
Pressurization Equipment	42%

Note: All pricing is FOB Destination with full standard surface freight allowed.

Per Section 32.a. of the RFP, Radio Frequency Systems is also offering a contractual project discount of three percent (3%) off the total value for any single purchase order or combination of purchase orders over \$100,000, submitted at one time by a purchasing entity, or multiple entities, conducting a cooperative purchase for delivery.

The above discounts shall be applied to the prices listed in the most current Radio Frequency Systems published price list and are subject to annual review.

Price List Dated 2003 included with all binders.

Contract No. 02702 Radio Frequency System – Phase II RADIO FREQUENCY SYSTEMS, INC.

Volume Discount Program - Phase 1 and Phase 2 all categories The volume discount will be cumulative and over the term of the contract. (Initial Term of Three [3] Years)

Additional Discount off	Cumulative Total	Cumulative Total
Net Contract Unit Price	Sales from:	Sales to:
1.0%	\$ 5,000,000	\$ 9,999,999
2.5%	\$ 10,000,000	\$ 14,999,999
3.5%	\$ 15,000,000	\$ 19,999,999
5.0%	\$ 20,000,000	\$ 29,999,999
6.0%	\$ 30,000,000	\$ 39,999,999
7.0%	\$ 40,000,000	\$ 49,999,999
7.5%	\$ 50,000,000	\$ 59,999,999
8.0%	\$ 60,000,000	\$ 69,999,999
8.5%	\$ 70,000,000	\$ 79,999,999
9.0%	\$ 80,000,000	\$ 89,999,999
9.5%	\$ 90,000,000	\$ 99,999,999
10.0%	\$100,000,000	\$ 100,000,000+

Relm (King) - Phase I

Contractor: RELM Wireless Corporation (King)

Contact: Shari Sharp Alternate Contact: Roberta Gran

Phone: 321-953-7952 321-953-7703 Fax: 321-676-4403 800-704-3177

Email: ssharp@relm.com robgran@relm.com

Internet address: www.relm.com

Web catalog address: www.relm.com

Federal ID No.: 59-3486297

Supplier No.: W1049

Total Contract worth:

Payment address: RELM Wireless Corporation Order placement 7100 Technology Dr

Dept. AT 952187 address: W Melbourne FL 32904

Atlanta, GA 31192-2187

Customer Service: Roberta Gran

Telephone: 800-821-2900

Fax: 800-704-3177

Ordering procedures: Call 800-821-2900 (Order Entry @ RELM), E-mail robgran@relm.com or Fax

hard copy purchase order to 800-821-2900 All w/ contract #02702 referenced.

Credit card acceptance: Visa, MasterCard, Discover & American Express

Minimum orders: N/A

Delivery time: 60 Days ARO

Payment terms: 0% 30 Days

Shipping destination: Free on Board (FOB) destination

Freight: Prepaid and included

Palletization: YES

Category

Equipment Line items

Link to Equipment www.relm.com

Specifications

Link to Price Sheets

Link to Price Sheets

And Authorized Dealers

Relm pricing percentage.doc

Relm pricing 2008.pdf



Awarded Phase(s) Phase I

Sinclair Technologies

Contractor: Sinclair Technologies

Contact: Arlene Gerfin Alternate Contact: Cyndi Fischer

Phone: 716 874-3682 ext 336 310 796 1336 Fax: 716 874 4007 310 796 0636

Email: agerfin@sinctech.com cfischer@sinctech.com

Page 214

Internet address: www.sinctech.com

Web catalog address:

Federal ID No.: 16-0845791

Supplier No.: 30589-1

Total Contract worth: \$500,000,000.00

Payment address: Sinclair Technologies Order placement Sinclair Technologies

55 Oriskany Dr address: 55 Oriskany Dr

Tonawanda, NY 14150 Tonawanda, NY 14150

Customer Service: Arlene Gerfin

Telephone: 716-874-3682 x243

Fax: 716-874-8736

Ordering procedures:

Credit card acceptance: (NONE SPECIFIED, BUT ANSWERED YES THEY ACCEPT THEM)

Minimum orders:

Delivery time: 30 days After Receipt of Order (ARO)

Payment terms: 1% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I

Contract No. 02702 Sinclair Technologies – Phase I

Req. Item	Comm.	Description	Qty	Unit	Percentage off Mfg List Price
1.		Support Services	Hourly	EA	\$
2.		Installation Services	Hourly	EA	\$
3.		Repair Services	Hourly	EA	\$
4.		Accessories		EA	
5.		List other Equipment			
6.		Cavity Ferrite Tx Combiners		EA	35%
		Brand/Model: CT & TJ Series (Catalog pg. 52-53)			
7.		Excaliber Mobile Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: Excal Series (Catalog pg. 43-45)			
8.		Cavity Filters		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: FP/FR/FQ Series (Catalog pg. 100-104)			
9.		Isolators			35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: I Series (Catalog pg. 68-69)			
10.		Mobile Duplexers			35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: MR Series (Catalog pg. 96-99)			
11.		Band Pass Duplexer		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: P Series (Catalog pg. 86)			
12.		IM Suppression Panels		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: PC Series (Catalog pg. 67)			
13.		Preselectors		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: FP & PH Series (Catalog pg. 82-83)			

Contract No. 02702

Sinclair Technologies – Phase I

Req. Item	Comm. Code	Description	Qty	Unit	Percentage off Mfg List Price
14.		Q-Circuit Base Station Duplexers		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: Q-201G / Q-202G Series (Catalog pg. 89-90)			
15.		Res-Lok 'Q' Series Duplexers		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: Q Series (Catalog pg. 91-95)			
16.		Receiver Multicouplers		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: RM Series (Catalog pg. 73-76)			
17.		Exposed Dipole Array Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL- 110 / 210 / 222 / 224 / 235 / 310 / 335 Series (Catalog pg. 7, 9-12, 17-19)			
18.		VHF Corner Reflector		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-227 (Catalog pg. 40)			
19.		Omnidirectional Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-238 (Catalog pg. 8)			
20.		Yagi Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-206 / SRL-212 / SRL-307 / SRL-406 (Catalog pg. 36, 37, 39)			
21.		Cellular/Trunking Exposed Dipole Array Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-410 Series (Catalog pg. 21)			
22.		Cellular/Trunking Omnidirectional Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-420 / SRL-480 Series (Catalog pg. 30)			

Contract No. 02702

Sinclair Technologies – Phase I

Req. Item	Comm. Code	Description	Qty	Unit	Percentage off Mfg List Price
23.		Data Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-441 Series (Catalog pg. 46-47)			
24.		Transmitter Combiners		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: TC Series (Catalog pg. 58-59)			
25.		Fiberglass Collinear Antennas		EA	<u>35%</u>
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-229 / SRL-320 (Catalog pg. 13, 16)			
26.		Ground Plane Antennas		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: SRL-101 / SRL-301 (Catalog pg. 5, 15)			
27.		Harmonic Filters		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: AF Series (Catalog pg. 72)			
28.		Power Monitor/Alarm Systems		EA	<u>35%</u>
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: AMV-6A (Catalog pg. 84)			
29.		Clamps and Mounting Hardware		EA	35%
		Mfg.: Sinclair Technologies Inc.			
		Brand/Model: Clamps (Catalog pg. 118-125)			

Contract No. 02702 SmartLink Radio Networks

Contractor: SmartLink Radio Networks

Page number

Contact: Steve Scott Alternate Contact:

Phone: 310-791-8798

Fax: 310-375-9754

Email: sscott@calamp.com

Internet address: www.smartlink.net

www.calamp.com

Web catalog address:

Federal ID No.: 06-1700610

Supplier No.: W3499

Total Contract worth: \$500,000,000.00

> Payment address: SmartLink Radio Order placement SmartLink Radio Networks, Inc. address:

Networks, Inc.

1269 So. Broad Street 1269 So. Broad Street Wallingford, CT 06492 Wallingford, CT 06492

Glenn Schultz Customer Service:

> Telephone: 203-741-5603

> > 203-269-2378

Ordering procedures:

Credit card acceptance: None

Minimum orders:

Delivery time: 15 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

> Prepaid and included Freight:

Palletization: N/A

Category

Equipment Line items Category 4, IP Base Gateway Solution

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I & II

Contract No. 02702 SmartLink Radio Networks – Phase II

Specification

Category 4 IP Base Solution SmartLink

The purpose of this section is to purchase an IT Based solution that has interface adapters for a variety of communications devices and mediums (VHF/UHF radio, telephone or Satcom, HF radio, local operator, etc.). The switch shall consist of a control unit containing all audio and switching circuitry, medium interface connectors, controls and indicators. Accessory adapters for a variety of external communications devices and mediums shall be supported. SmartLink flexibility and low cost aspects of this solution make it ideal for metropolitan scale internet protocol based solutions. See full list of specifications at: http://www.ga.wa.gov/pca/bids/02702-Phase2-Category4.doc

Price Sheet

1. Required Equipment Quantities

Table 0-1: Summary of Basic Equipment Quantities

Twelve of Treatment of Education Quantities	Typical Small System Quantities	Typical Medium System Quantities
Interoperability Operation Center	1	1
System Management Console	1	1
Remote Management Console	See Footnote 1	See Footnote 1
PSTN Interface	6	0
Audio Interface Card	90	186
Audio Interface Chassis	18	34
Optional Dispatch Consoles	4	0
Remote Dispatch Facility (if required)		

^{1.} A dedicated remote console is not required as any PC equipped with the appropriate software may provide remote access to for management or diagnostic purposes the ANP throught a direct, dial-up or LAN connection.

2. PRICING

Bidders shall provide pricing information on the following price forms:

2.1. Basic System Pricing (backbone)

Contract No. 02702 SmartLink Radio Networks – Phase II

Item	Qty	Equipment Description	Price Each	Price Extended	
1	Small	Interoperability Operations Center and Audio		\$201,787	
	Medium	Interface Interoperability Solution Pricing		\$547,165	
2a	Small	System Management Equipment and Software		\$491,910	
В	Medium			\$1,130,544	
3a	Small	Installation		\$211,649	
В	Medium			\$266,929	
4	Lot	Training Including:			
	Small	Operator/User		\$1,250	
	Medium			\$1,250	
	Small	Technician		\$4,000	
	Medium			\$4,000	
	Small	Administrator		\$2.000	
	Medium			\$2,000	
	Small	Console		\$79,980	
	Medium			\$19,995	
5	Small	Documentation		\$14,000	
	Medium			\$14,000	
6	Small	Project Management		\$40,000	
	Medium			\$40,000	
7	Small	Project Engineering		\$16,000	
	Medium			\$16,000	
8	Small Medium	(Optional) Software Services	Software maintenance will be assessed at 15 to 20% of the SmartLink site and channel license costs billed on an annual basic		
9	Small	(Optional) Maintenance (Basic System)		TBD	
	Medium	n l		TBD	
10	Small	(Optional) Spare Parts (Basic System)	See section 4 of the bid		
	Medium		submittals		
11	Small	(Optional) Test Equipment	See section 4 of the bid		

Contract No. 02702 SmartLink Radio Networks – Phase II

Item	Qty	Equipment Description	Price Each	Price Extended
	Medium		submittals	

Optional System Equipment Pricing

Item	Qty	Equipment Description	Price Each	Price Extended
1	1	Optional Dispatch Equipment		\$19,995

Grand Total for Small System	\$1,062,578
Grand Total for Medium System	<u>\$2,041,883</u>

Contract No. 02702 **Tait North America Inc.**

Contractor: Tait North America, Inc.

Contact: Paul Middleton, Alternate Contact: Patricia Nguyen

Phone: 281-687-4050 281-600-8281

Fax: 281-829-3320 (281) 829-3320.

Internet address: http://us.taitworld.com wsca@taitmobile.com

Web catalog address: www.taitworld.com

Catalog http://www.ga.wa.gov/pca/contract/02702-Tait-Radio-12052005.pdf

Federal ID No.: 74-2209324

Supplier No.: W6742

Total Contract worth:

Payment and Legal address: Controller: Tanya Pal Order placement Operations Mgr

15740 Park Row, #450 address: 15740 Park Row, #450 Houston TX 77084 Houston TX 77084

Customer Service: Logistic & order processing Dept wsca@taitmobile.com

Telephone: 281-829-3300

Fax: 281-829-3320

Ordering procedures:

Credit card acceptance: Visa, MasterCard

Minimum orders: None

Delivery time: 30 days After Receipt of Order (ARO)

Payment terms: % days

Shipping destination: Free on Board (FOB) destination

Freight: Prepaid and included

Palletization:

Category

Equipment Line items

Link to bid Specifications

Link to Price Sheets

Awarded Phase(s) Phase I

Contract No. 02702 **Tait North America Inc.**

Req.	Comm. Code	Description	Qty	Unit	Percentage off
Item					Mfg List Price
1.		Base Station	1-4	EA	25%
		TB800 II Series	5-10	EA	25%
			11+	EA	25%
1a		Base Station	1-4	EA	15%
		TB8000	5-10	EA	17%
			11+	EA	22%
2.		Repeater	1-4	EA	25%
		T800 II	5-10	EA	25%
			11+	EA	25%
2a		Repeater	1-4	EA	10%
		TB8000	5-10	EA	12%
			11+	EA	15%
3.		Portable Radio	1-49	EA	25%
			50+	EA	25%
4.		Mobile Radio	1-20	EA	25%
			21-100	EA	25%
			101+	EA	25%
5.		TB8100 Products	1	EA	25%
6.		Support Services (excluding travel &			
		accommodation)			
		Training costsper student per hour	1	HR	\$85.00
		During office hours	1	HR	\$85.00
		Outside office hours	1	HR	\$150.00
7.		Repair Services			
		During office hours	1	HR	\$85.00
		Outside office hours	1	HR	\$150.00
8.		Accessories			
		All accessories Items for radio in Tait	1	EA	20%
		North America Inc WSCA price book			
9.		List other Equipment			
-		All other items in the Tait North America	1	EA	20%
		Inc WSCA price book, except equipment			
		for items above			

Contract No.02702

Valmont

CONTRACTOR INFORMATION

Valmont Contractor:

http://www.ga.wa.gov/pca/bids/02702-Phase2-Category6.doc Page number

Contact: Dennis Beal Alternate Contact: Sean Gallagher Phone: 503-589-6671 503-589-6616 Fax: 503-589-6636 503-363-4613 Email: Dennis.Beal@Valmont.com seang@valmont.com

Alternate Contact: Ron Beyer 503-589-6673 Phone: Fax: 503-363-4613 Email: ronb@valmont.com Internet address: http://www.valmont.com http://www.valmont.com Web catalog address:

http://www.ga.wa.gov/pca/contract/02702-Valmont-HeavyMicrowave-details-**Tower Details**

052005.xls

http://www.ga.wa.gov/pca/contract/02702-Valmont-MicrowaveHeavyTowers-Bid Documents and

052005.doc **Specifications**

35-1990084 Federal ID No.: Supplier No.: W365

Total Contract worth: \$500,000,000.00

Payment address: Valmont Order placement Valmont Industries

> 3575 25th Street SE address: Accounts Payable Salem, OR 97302 P.O. Box 128

Plymouth, IN 46563

Customer Service: Kathy Kalugin 503-589-6658 Telephone: 503-363-4612 Fax: See the next pages Ordering procedures: Visa and Mastercard Credit card acceptance:

Minimum orders: None

Delivery time: 45 days After Receipt of Order (ARO)

Payment terms: 0% 30 days

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category Category 6 Communication Towers

Equipment Line items

Link to bid Specifications http://www.ga.wa.gov/pca/bids/02702-Phase2-Category6.doc

HEAVY MICOROWAVE 3-LEGGED TRIANGULAR HOLLOW LEG SELF SUPPORT Link to Price Sheets

TOWERS Page 225

HEAVY MICORWAVE 4 LEGGED HOLLOW ROUND SELF SUPPORT TOWERS

Page 228

Engineering Hourly Rate \$ 95.00 per hour Frabication Hourly \$ 75.00 per hour Installation \$ 85.00 per hour

Materials at cost + 15%

Valmont

Awarded Phase(s)

Phase I & II

Category 6 Communication Towers
SPECIAL TERMS AND CONDITIONS

1. MATERIALS AND WORKMANSHIP

The Contractor shall be required to furnish all materials, equipment and/or services necessary to perform contractual requirements. Materials and workmanship in the construction of equipment for this contract shall conform to all codes, regulations and requirements for such equipment, specifications contained herein, and the normal uses for which intended. Materials shall be manufactured in accordance with the best commercial practices and standards for this type of equipment. Materials used in the production of any tower must be new.

2. WARRANTY(IES)

All materials provided shall be guaranteed by the contractor against mechanical, electrical and workmanship defects. In the event defects become evident within the warranty period, the contractor shall furnish replacement parts and materials at no additional cost to the state. The warranty period shall commence with the date of the communications tower's acceptance and remain in effect for one (1) calendar year, except for expendable items.

The contractor shall provide, within the warranty period and at the bid price, the necessary parts, labor and transportation to maintain the equipment in sufficient state of repair to continue system performance in compliance with the specification contained herein. The contractor shall provide qualified personnel, replacement parts and material to service the equipment at the installed site location within eight (8) hours after the notification of equipment failure. Repairs must be complete within 48 hours.

This warranty period maintenance shall be on a working hour basis as follows: 24 hours per day, 7 days per week.

HEAVY MICOROWAVE 3-LEGGED TRIANGULAR HOLLOW LEG SELF SUPPORT TOWERS

Tower in 20 ft Section, top down	Mfg stock number	Tower Costs Material & Freight Only	Climbing Ladder & Anti- Climb Device Material & Labor	Obstruction Lighting System Medium Intensity Material & Labor	Soils Report Costs	Grounding of Tower Base & WG Ladder	Tower Installation Costs Labor Only	Standard Safety Climb Cable Device includes harness, sleeve + Top & Bottom Stops + Install Labor	Rose Safety Climb Rail Device includes sleeve + Top & Bottom Stops + Install Labor	Total \$
Line Item										
		<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u>\$</u>	\$0.00
1. 20 ft	V920-20	\$8,250.00	\$600.00	\$9,705.00	\$4,200.00	BY OTHERS	\$11,920.00	\$1,205.00	\$1,500.00	\$37,380.00
2. 40 ft	S920-40	\$9,472.00	\$1,240.00	\$9,705.00	\$4,200.00	BY OTHERS	\$12,080.00	\$1,445.00	\$1,975.00	\$40,117.00
3. 60 ft	S920-60	\$10,981.00	\$1,860.00	\$9,705.00	\$4,200.00	BY OTHERS	\$13,520.00	\$1,737.00	\$2,455.00	\$44,458.00
4. 80 ft	S920-80	\$13,211.00	\$2,480.00	\$9,705.00	\$4,200.00	BY OTHERS	\$16,760.00	\$1,977.00	\$2,855.00	\$51,188.00
5. 100 ft	S920-100	\$15,411.00	\$3,100.00	\$9,705.00	\$4,200.00	BY OTHERS	\$19,000.00	\$2,217.00	\$3,380.00	\$57,013.00
6. 120 ft	S920-120	\$19,930.00	\$3,720.00	\$9,855.00	\$4,200.00	BY OTHERS	\$22,340.00	\$2,510.00	\$3,860.00	\$66,415.00
7. 140 ft	S920-140	\$24,930.00	\$4,380.00	\$9,855.00	\$4,200.00	BY OTHERS	\$24,580.00	\$2,750.00	\$4,340.00	\$75,035.00
8. 160 ft	S920-160	\$29,879.00	\$4,960.00	\$12,735.00	\$4,200.00	BY OTHERS	\$26,820.00	\$3,042.00	\$4,735.00	\$86,371.00
9. 180 ft	S920-180	\$34,599.00	\$5,580.00	\$12,735.00	\$4,200.00	BY OTHERS	\$30,060.00	\$3,282.00	\$5,265.00	\$95,721.00
10. 200 ft	S920-200	\$40,689.00	\$6,200.00	\$12,735.00	\$4,200.00	BY OTHERS	\$32,300.00	\$3,522.00	\$5,740.00	\$105,386.00
11. 220 ft	S920-220	\$47,238.00	\$6,820.00	\$12,875.00	\$4,200.00	BY OTHERS	\$37,920.00	\$3,805.00	\$6,140.00	\$118,998.00
12. 240 ft	S920-240	\$55,388.00	\$7,440.00	\$12,875.00	\$4,200.00	BY OTHERS	\$40,160.00	\$4,045.00	\$6,620.00	\$130,728.00
13. 260 ft	S920-260	\$64,957.00	\$8,060.00	\$12,875.00	\$4,200.00	BY OTHERS	\$42,400.00	\$4,342.00	\$7,095.00	\$143,929.00
14. 280 ft	S920-280	\$75,688.00	\$8,680.00	\$12,875.00	\$4,200.00	BY OTHERS	\$47,520.00	\$4,582.00	\$7,580.00	\$161,125.00
15. 300 ft	S920-300	\$97,507.00	\$9,300.00	\$12,875.00	\$4,200.00	BY OTHERS	\$49,760.00	\$4,822.00	\$8,335.00	\$186,799.00
				TOTAL						<u>\$1,400,663.00</u>

HEAVY MICORWAVE 4 LEGGED HOLLOW ROUND SELF SUPPORT TOWERS

Tower in 20 ft	Mfg stock	Tower Costs	Climbing	Obstruction	Soils Report	Grounding	Tower	Standard	Rose Safety	Total \$
Section, top down	number	Material &	Ladder & Anti-	Lighting	Costs	of Tower	Installation	Safety Climb	Climb Rail	Total \$
Section, top down	number	Freight Only	Climb Device	System	Costs	Base & WG	Costs Labor	Cable Device	Device	
		1	Material &	Medium		Ladder	Only	includes	includes sleeve	
Line Item			Labor	Intensity				harness,	+ Top &	
				Material &				sleeve + Top	Bottom Stops +	
				Labor				& Bottom	Install Labor	
								Stops + Install Labor		
		<u>\$</u>	\$	<u>\$</u>	\$	<u>\$</u>	\$	\$	<u>\$</u>	\$0.00
1 20 1	2.5020.20					<u> 4</u>				<u>'</u>
1. 20 ft	M820-20	\$12,880.00	\$600.00	\$9,705.00	\$4,200.00		\$12,648.00	\$1,205.00	\$1,500.00	\$42,738.00
2. 40 ft	M840-40	\$18,126.00	\$1,240.00	\$9,705.00	\$4,200.00		\$12,888.00	\$1,445.00	\$1,975.00	\$49,579.00
3. 60 ft	M840-60	\$26,022.00	\$1,860.00	\$9,705.00	\$4,200.00		\$14,536.00	\$1,737.00	\$2,455.00	\$60,515.00
4. 80 ft	M840-80	\$33,178.00	\$2,480.00	\$9,705.00	\$4,200.00		\$18,164.00	\$1,977.00	\$2,855.00	\$72,559.00
5. 100 ft	M840-100	\$39,874.00	\$3,100.00	\$9,705.00	\$4,200.00		\$20,692.00	\$2,217.00	\$3,380.00	\$83,168.00
6. 120 ft	M840-120	\$47,000.00	\$3,720.00	\$9,855.00	\$4,200.00		\$25,475.00	\$2,510.00	\$3,860.00	\$96,620.00
7. 140 ft	M840-140	\$57,056.00	\$4,380.00	\$9,855.00	\$4,200.00		\$28,147.00	\$2,750.00	\$4,340.00	\$110,728.00
8. 160 ft	M840-160	\$66,197.00	\$4,960.00	\$12,735.00	\$4,200.00		\$30,819.00	\$3,042.00	\$4,735.00	\$126,688.00
9. 180 ft	M840-180	\$76,623.00	\$5,580.00	\$12,735.00	\$4,200.00		\$34,641.00	\$3,282.00	\$5,265.00	\$142,326.00
10. 200 ft	M840-200	\$84,329.00	\$6,200.00	\$12,735.00	\$4,200.00		\$37,313.00	\$3,522.00	\$5,740.00	\$154,039.00
11. 220 ft	M840-220	\$95,030.00	\$6,820.00	\$12,875.00	\$4,200.00		\$45,856.00	\$3,805.00	\$6,140.00	\$174,726.00
12. 240 ft	M840-240	\$106,486.00	\$7,440.00	\$12,875.00	\$4,200.00		\$48,672.00	\$4,045.00	\$6,620.00	\$190,338.00
13. 260 ft	M840-260	\$126,157.00	\$8,060.00	\$12,875.00	\$4,200.00		\$51,488.00	\$4,342.00	\$7,095.00	\$214,217.00
14. 280 ft	M840-280	\$143,113.00	\$8,680.00	\$12,875.00	\$4,200.00		\$57,760.00	\$4,582.00	\$7,580.00	\$238,790.00
15. 300 ft	M840-300	\$158,949.00	\$9,300.00	\$12,875.00	\$4,200.00		\$60,576.00	\$4,822.00	\$8,335.00	\$259,057.00
				<u>TOTA</u>	L					\$2,016,088.00
1										ĺ

REV G SPECIFICATIONS VALMONT

MICROWAVE TOWERS CAMERA POLES MONOPOLES OPTIONAL LIGHTING	Valmont 2007 Prices. doc	
REV G CATEGORIES	G:\Purchasing & Contracts\Contracts\	
MONOPOLES	Valmont Monopoles.xls	

CONTRACTOR INFORMATION

Contractor: Vertex Standard USA

Contact: Jim Driscoll, Sr. Director, Gov't Alternate Contact: Nori Romero, Sales Office Supervisor

Sales 1900 Walker Street

P.O. Box 173 Cypress, CA 90630

Hopkinton, MA 01748

Phone: 508-435-3905 (800) 283-7839 x 2273

Fax: 508-435-0525 (800) 477-9237

Email: j.driscoll@vxstdusa.com n.romero@vxstdusa.com

Internet address: http://www.vxstd.com

Product catalog address: http://www.ga.wa.gov/pca/contract/02702-Vertex-Radio-092804.pdf

Federal ID No.: 95-2815202

Supplier No.: W1063

Total Contract worth: \$500,000,000.00

Payment address: Vertex Standard Order placement See dealer list or Vertex Standard

PO Box 31001-1624 address: 10900 Walker Street Pasadena, CA 91110-1624 Cypress, CA 90630

Customer Service: Nori Romero

Telephone: 800-283-7839

Fax: 800-477-9237

Ordering procedures: Contact Customer Service

Credit card acceptance: Visa, MasterCard, American Express

Minimum orders: None

Delivery time: 30 days After Receipt of Order (ARO)

Payment terms: Net 30 Days

Current Contract Information Contract No. 02702

Shipping destination: Freight on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Category 1, Radio Equipment

Equipment Line items

Link to Price Sheets

Link to bid Specifications

Awarded Phase(s) Phase I

Vertex Standard

Price List.xls

Authorized dealer list:

SND Communications, Inc. 2200 Division Street Suite C

Bellingham, WA 98226

Grant Cooper

Tel - 360-671-1970 FEIN 911530285 sndcom@msn.com

Req.	Comm. Code	Description	Qty	Unit	Percentage off
Item					Mfg List Price
1.		Base Station	1-4	EA	28%
			5-10	EA	28%
			11+	EA	28%
2.		Repeater	1-4	EA	28%
		•	5-10	EA	28%
			11+	EA	28%
3.		Portable Radio	1-49	EA	28%
			50+	EA	28%

Page 230

Current Contract Information Contract No. 02702					
Req.	Comm. Code	Description	Qty	Unit	Percentage off
Item					Mfg List Price
4.		Mobile Radio	1-20	EA	28%
			21-	EA	28%
			100	EA	28%
			101+		
5.		Desktop	1-20	EA	28%
			21-	EA	28%
			100	EA	28%
			101+		
6.		Support Services	1	HR	\$75.00
7.		Installation Services	1	HR	\$75.00
8.		Repair Services	1	HR	\$75.00
9.		Accessories		EA	28%
10.		List other Equipment All products on our enclosed retail price list		EA	28%
11.		List other Equipment		EA	
12.		List other Equipment		EA	



Contractor: GE MDS, LLC

Contact: Customer Support Dept. or see Regional Sales Contact below

Phone: (800) 474-0964

Fax: (585) 242-9620

Email: Gemds.customersupport@ge.com

Troubleshooting: Sandi Kern, Customer Support Leader (585) 242-8430; sandra.kern@ge.com

Internet address: www.gemds.com

Web catalog address: N/A

Federal ID No.: 20-8016239

Supplier No.: W5915

Contract worth: \$ (100,000 estimated sales per state)

Payment address: P.O. Box 402789, Atlanta, GA 30384-2789

Order placement address: 175 Science Parkway, Rochester, New York 14620

Ordering procedures: Please send purchase orders via email or fax to contact info shown above.

Credit card acceptance: We accept MasterCard or VISA.

Minimum orders: N/A

Delivery time: Varies by product. Please contact Customer Support for further information.

Payment terms: Net 30 Days

Shipping destination: Free on Board (FOB) destination

Freight: Prepaid and included

Palletization: N/A

Special notes: Must reference contract on. 02702 on all purchase orders that are based on pricing included in this contract.

Detailed Information

Attached Information							
Special terms, conditions	Price Sheets	To submit a Contractor Performance Evaluation					
(contract terms, conditions, restrictions, etc.)	(Items available and prices.)	please fill out the attached document:					
GE MDS							
		Contractor					
		Performance Evaluati					
25% Off List Price							
	2007 REV A Contract Standard 25% Off.xl						
Volume Discount 500K plus 30% off List Price	X						
30% Off East Trice	GE MDS 2007 \$500K+ Discount Pric						
Special Marketing Information 900 MHz	W.						
	WSCA multistate_marketing						
Specifications							
	MDS_iNET_900_Mobil MDSentraNET_900_S e_Data_Bid_Spec.doc ample_Specification.d	MDSentraNET_900_S ample_Specification.d					
Specifications - continued	TAP						
	MDSMercuryBidSpeci MDSTransIt_900_MH fication_v5.doc z_Sample_Spec.doc	Licensed_Point to 900_MHz_Unlicensed Multipoint.docLow_Density_Spread					
Specifications - continued							
	Point To 900_MHz_Point To Point_HotStandby_O Point_NonStandby_O						

_	Current Contract Information	Contract No. 02702	Page 234
	Regional Sales Contact List Click on right to locate your local representative	GE MDS Regional	
	representative	Sales Contact List.xls	

See link for sales territory and contact list by location



Sales Regions for US and Canada

PERFORMANCE REPORT FOR CONTRACTOR PRODUCT/SERVICE

Complete this form to report problems with suppliers or to report unsatisfactory product or services. You are also encouraged to report superior performance. Agency personnel should contact suppliers in an effort to resolve problems themselves prior to completion and submission of this report.

Contract number and title: WSCA Public Safety Communication Contract

OFFICE OF STATE PROCUREMENT PERFORMANCE REPORT

To OSP Customers:

Please take a moment to let us know how our services have measured up to your expectations on this contract. Please copy this form locally as needed and forward to the Office of State Procurement Purchasing Manager. For any comments marked unacceptable, please explain in remarks block.

	Procurement services provided:	Excellent	Good	Acceptable	Unacceptable
A A A A	Timeliness of contract actions Professionalism and courtesy of staff Services provided met customer needs Knowledge of procurement rules and regulations Responsiveness/problem resolution Timely and effective communications				
Con	nments:				
	Agency:	Prepared	by:		

Current Contract Information	Contract No. 02702	Page 236
Contract No.: 14600	Title:	
Contract Title: Electronic Monitoring	Date:	
	Phone:	

Send to:
Purchasing Agent
Office of State Procurement
PO Box 41017
Olympia, Washington 98504-1017

Complete this form to report problems with suppliers or to report unsatisfactory product or services. You are also encouraged to report superior performance. Agency personnel should contact suppliers in an effort to resolve problems themselves prior to completion and submission of this report.



Contract number and title: Public Safety Communication Equipment, WSCA #02702

Vendor and Contract Report Cards

Instructions:							
Use Part 1 to tell us about how well the contractor is performing.							
Use Part 2 to tell us how well the	Use Part 2 to tell us how well the contract works for you.						
Submit completed Report Card t	o: pcamail@ga.wa.gov						
➤ To check boxes – double click							
Need Help? Click here pcamail@ga.wa back to you within one business day.	Need Help? Click here pcamail@ga.wa.gov to send us an email with your question and someone will get back to you within one business day.						
Tell us about you:							
Agency / Division Agency Contact Name Email							
Tell us about the contract:							
Contractor Name	Contract Number	Performa	nce Period				
		From:	To:				
I use this contract:							
☐ Daily ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Annually							

Part 1 Vendor Performance Report Card				
1. Would you like the current contract extended with the current vendor? (if applicable)				
☐ Yes ☐ No				
2. On time delivery and order completion				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
3. Timeliness of invoices				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
4. Customer service courtesy and quality				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
5. Accuracy of invoices				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
6. Problem solving				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
7. Overall vendor performance				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
8. Tell us about the times that the vendor has given you outstanding or unsatisfactory service:				
Part 2 Contract Quality Report Card				
1. Items on contract meet my needs (functionality and performance)				
Outstanding (5) Very Good (4) Satisfactory (3) Poor (2) Unsatisfactory ((1)			
2. Contract pricing meets my expectations (cost effective and a good value)				

	Current Contract Infor	mation	Contract No. 02702		Page	239
	Outstanding (5)	☐ Very Good (4)	Satisfactory (3)	Poor (2)	Unsatisfactory (1)	
3.	Contract requirem	nents meets my needs ((special terms and con	ditions)		
	Outstanding (5)	☐ Very Good (4)	Satisfactory (3)	Poor (2)	Unsatisfactory (1)	
4.	Length of contrac	t term meets my needs	s (appropriate term for	the market)		
	Outstanding (5)	Very Good (4)	Satisfactory (3)	Poor (2)	Unsatisfactory (1)	
5.	Scope of contract	meets my needs (num	ber of items, features	and options)		
	Outstanding (5)	☐ Very Good (4)	Satisfactory (3)	Poor (2)	Unsatisfactory (1)	
6.	Do you have any	suggested changes to t	the contract?			
	Add the following	gitems to the contract	(list):			
	Remove the following items from the contract (list):					
	Add the following features, services or options (list):					
	Remove the following features, services or options (list):					
	☐ Change the following specification (list item and specification):					
	Other suggested changes (list):					

To: Keith Armstrong Contract Consultant OFFICE OF STATE PROCUREMENT PO BOX 41017 OLYMPIA WA 98504-1017